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DECEMBER 1997

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Internet tools: Telstra Big Pond, Mondial and Giganet access kits, Internet Explorer 4.0 final release, Netscape Communicator 4.03 and other browsers. Plus Net.Medic 1.2, Macromedia ShockWave, RealPlayer 4, and more.
Utilities: 3DshellArt, Panorama 32, Flashview, QuikLink Explorer Gold, PaintShop Pro, WinZip 6.3, Thunderbyte 8.02, OrnaMental True Type Font, Direct-x 5.0, Intellitype Update and more.

M15+ *Some of the games on this CD-ROM have low/medium level animated violence.*

• See page 3 of this month's PC User for more details.

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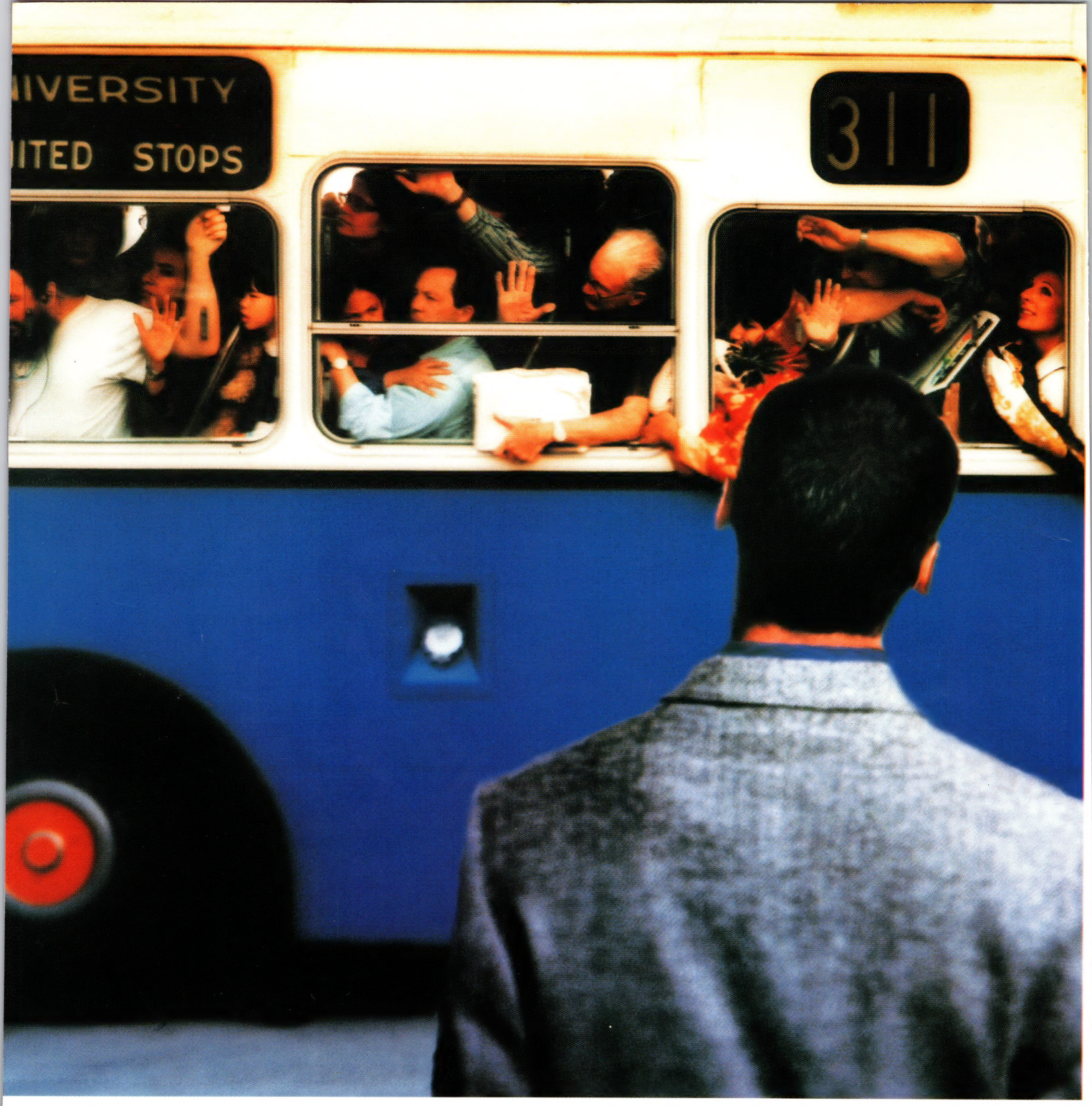

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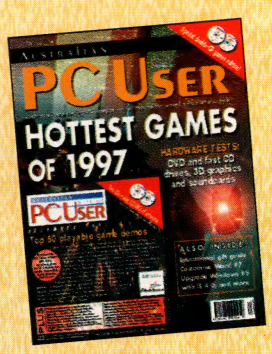


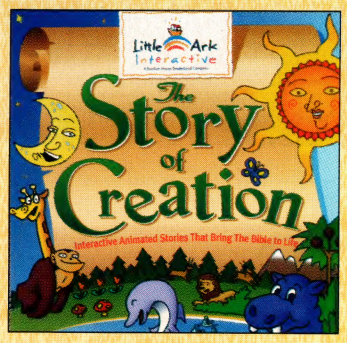
Cover design:
Michèle Heibel
(Graphic from the game Blade Runner)

Main cover story:

56 The best games of 1997, with full reviews of the latest releases.

Other cover stories:

10 DVD and fast CD drives, 3D graphics, soundcards & more tested.
36 Christmas Gift Guide: fun and educational ideas for kids and adults.
82 Customise Word 97 to suit you — and Australian conditions.
94 Use Internet Explorer 4.0 to upgrade Windows 95.



From Bible stories to hand-held games to home design software — our gift guide has something for everyone. Page 36.

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3D graphics: To play the hottest games you need a 3D card. Here's a guide.
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Visual Basic: Add menus to your programming projects.

EXCLUSIVE OFFERS

SUBSCRIBE & WIN!

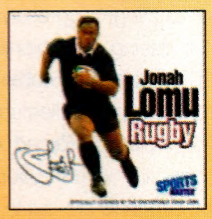
Subscribe to *PC User* and you could win this Super Value Bundle from Compucon, featuring a Pentium 200MHz PC, 24x CD-ROM drive, 33.6Kbps fax-modem, Microsoft Windows 95, colour scanner, Epson Stylus Color printer and more! See page 96.

$100 worth of books or CD-ROMs

Our letter of the month wins this prize from Webster Publishing! See page 6.

100 games to be won!

Turn to page 4 for your chance to win a copy of Jonah Lomu Rugby, TOCA Touring Cars,. Feeble Files or Forced Alliance thanks to Sega-Ozisoft!



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Tutorial: How to keep your child's brain 'active' over the holidays.

AUSTRALIAN OFFLINE PC USER

What's on your bonus CD-ROM!

PC User Interactive (Disc 1)

Exclusive files which you'll only find on the PC User Offline CD.

570 ISPs listed: The latest pricing, dial-up points and other details on over 570 Internet Service Providers across Australia!

D-I-Y applications: Create your own **Christmas cards, Web cascading style sheets** and **Visual Basic menu, customise Word** and **name cells in Excel**. Follow our Applications tutorials starting on page 82 and use our files!

General applications (Disc 1)

PhotoSmart Suite tutorial: Hewlett-Packard's PC photography system fully explained.

Shareware: As reviewed on page 110, **Expeditor, TextPad 32, IconEdit Pro, RapidReader, Classified 97, Above and Beyond 4.0, TextPad 16, Christmas Scenes Screensaver, Label Graphics Collection, Oasis, InfoDex, Softscene, Crossword Power, OutlinePlus**, plus trial versions of **American Greetings CreataCard Gold 2** (see page 48) and **WinLotto**.

Online tools (Disc 1)

ISP kits: Get on the Net the easy way with access kits from **Telstra Big Pond, Mondial** and **Giganet** (please use voucher number PCU1296 when joining up).

Browsers: **Internet Explorer 4.0 final release** and **security patch, IE 4.0 beta for Win 3.1**, plus **Netscape Communicator** and **Navigator 4.03, IE 3.02** and **Navigator 3.03** for Windows 95 and 3.1.

Internet tools: **Net.Medic 1.2, Eudora Light, Macromedia ShockWave, RealPlayer 4, Acrobat Reader.**

Utilities & patches (Disc 1)

Shareware: As reviewed on page 110, **3DshellArt, Panorama 32, Flashview, QuikLink Explorer Gold, OrnaMental True Type Font**, plus regular utilities **Paint Shop Pro, WinZip 6.3** and **Thunderbyte 8.02**.

Patches: **Direct-x 5.0**, the **Windows NT 4.0**

System requirements

The PC User Offline disc can be used with any PC that reads DOS-based CD-ROMs. However, we recommend use with Microsoft Internet Explorer 3 or later for Windows 3.1 or 95 with the Shockwave plug-in, which requires at least a 486 with 8Mb of RAM. The third-party software on the CD may have higher system requirements.

Intellitype Update, **QuickTime for Windows**, **Visual Basic Runtime Files**, and more.

Games

Fifty playable demos for all tastes, ranging from sports sims to strategy to 3D action!

Disc 1 — Windows 95: Jedi Knight: Dark Forces II, KKnD Xtreme, Seven Kingdoms, Broken Sword II: The Smoking Mirror, Cricket 97 (Ashes Tour Edition), Excalibur 2555 AD, IF-16, Joint Strike Fighter, Mage Slayer, Nuclear Strike, Incubation: Time is Running Out, Men in Black: The Game, Moto Racer, Virtual Pool 2, Time Warriors.

Disc 2 — Windows 95: Ecstatica 2, POD, POD for MMX PCs, MDK, Shivers 2: Harvest of Souls, Interstate 76, F/A-18 Hornet 3.0, Theme Hospital, Betrayal in Antara, Twinsen's Odyssey (Little Big Adventure 2), Need for Speed 2, X-Wing vs TIE Fighter, The Curse of Monkey Island, Beasts and Bumpkins, Warlords 3, Ignition, Dungeon Keeper, International Rally Championship, Comanche 3, Panzer General II, Shadows of the Empire, Claw, NetStorm, Worms 2, Broken Sword, F22 Lightning II, Magic: The Gathering, Diablo, Links LS 98.

Disc 2 — DOS: Tomb Raider, Theme Hospital, Twinsen's Odyssey (Little Big Adventure 2), Screamer 2, SkyNET, Wing Commander IV, Daggerfall, JetFighter III, Ultima Underworld: The Stygian Abyss.

Using PC User Offline

To make it easy for you to try the software on the CD, we've provided Web pages that allow you to read about the software then install or run them. We've provided the latest versions of Netscape, Internet Explorer and the Shockwave plug-in — although we currently recommend use with IE 3 or 4 for Windows 3.1 or 95. This is because it allows programs to be run straight off the CD.

The easiest way to use our disc is to run the version of IE pre-installed on the CD — nothing, apart from our icons, are installed on your hard disk. See the back of the CD cover for installation instructions. From there, simply click on the PC User Offline icon and start browsing our CD. Our Web pages include tab buttons for the software categories described above, or you can click the Software toggle button to access our Web site preview of Internet tutorials and sites. For this month's double-CD edition, we've also advised whether the software detailed on each page is available on disc 1 or 2. But if you happen to get an error message, you probably just need to swap discs. There should be no need to close down the browser: simply swap discs, wait a couple of seconds and try again.

Newcomers to our disc should click on the Help button, available from all Web pages, for more instructions on how to browse our CD and install software.

Having trouble?

We are happy to provide written technical support for the software created by *Australian PC User*, but we **cannot provide telephone support**. *PC User* software includes the PC User Offline Web pages and Interactive tutorials. It does not include any third-party software on this disc, including Microsoft Internet Explorer.

If you need technical support for any of the third-party software or tutorials on the CD, you will need to contact the developer of that program. You will find details about the developer either in the program's Help menu or Readme file accompanying the program.

If your disc is damaged, just send the disc and a note with your name and postal address, to PC User Disc Exchange, GPO Box 4088, Sydney NSW 1028.

For technical support of *PC User* software, write to Philip Moore at the above address, e-mail him at pmoore@acp.com.au or send a fax to him on (02) 9267 4909. Please include full details about your system and any error messages you have encountered while running our disc.

About this software

While some of the software is completely free, many programs are trial versions or shareware, which are designed to be used for a limited time only. If you continue to use a shareware program, you are obliged to pay a registration fee to the author or official supplier. ❑

PC User Plus card match and win!

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PC User subscrubers get a number of benefits (see page 96), including our PC User Plus card. Each card comes with its own individual number — which could be your passport to winning this month's great giveaway: 100 hot new games from Sega-Ozisoft! Here's what's on offer:

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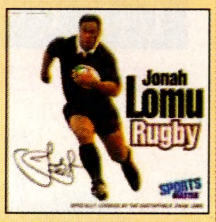

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Sega•Ozisoft

Disclaimer

We have tested this CD-ROM extensively and taken every care to scan for viruses. However, *Australian PC User* cannot guarantee that all the software on the CD will work on every PC. Finally, we cannot be held responsible for any damage to your system caused directly or indirectly by any software on the PC User Offline disc, or by following any of the tutorials on this disc.

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PCUSER-Revised

Australian PC User

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Editor Glenn Rees
Art Director Michèle Heibel
Technical Editor Jan Wikström
Sub Editor Fiona Tomarchio
Artist/Editorial Assistant Kathryn Hawkins
Hardware & Electronic Publishing Editor Philip Moore
Games Editor Julian Schoffel
School PC Editor Helen Dancer

Contributing writers
Angela Booth, Helen Bradley, Linda Bruce, David Flynn, Link Harris, John Hilvert, Stephen O'Brien, Mark Rogers, Jon Simonds, Rose Vines, Darren Yates

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National Advertising Manager
Tom Di Terlizzi (02) 9288 9144
tomd@acp.com.au
Advertising Manager, New South Wales
Wade Gilmore (02) 9288 9146
wadeg@acp.com.au
Advertising New South Wales
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TO SUBSCRIBE TO *PC USER* TURN TO PAGE 96

Inbox

Readers' letters

Which chip?

While reading your November '97 issue I was dismayed to read the article '$1600 Pentium' (page 89). Having worked in the PC industry for years and building and configuring systems similar to the ones mentioned, I was stunned to read some glaring mistakes.

A Cyrix 200MHz 6x86 is mentioned and to my knowledge, they do not exist. The Cyrix 6x86 200 is in fact rated at 150MHz. Comparing the Cyrix 6x86 P200 to an Intel 200MHz in performance and speed is quite ridiculous and a mistake of epic proportions.

Although the Cyrix 6x86 P200 is certainly one of the better-value-for-money CPUs on the market, let's not get carried away.

The 6x86 is not a Pentium, although in this case you can certainly say it is comparable. The VX mainboard is an acceptable mainboard but by no means modern; any reasonable system should be using a TX mainboard.

In your role as a reviewer of PCs and PC parts, I would expect more care to be taken in your specifications quoted.

PC User is in my judgement an excellent magazine, but you should perhaps take more care in the future, as many of my prospective customers rely on your guidance and advice.

Rom Jackson
Moonee Ponds, Vic

Annoyed non-Net user

For reasons which I will not bother you with, I am not an Internet user. Thus I noted that November would be an Internet special with minor annoyance, but what an issue it turned out to be.

For a start, in the interest of shelf space, I carefully removed everything after page 140, while being thankful that you at least put most ads in one place for odd readers like myself. Then I turned to the front and was able to read with some interest up to page 9. Wow! From page 10-96, a solid block of Internet, then Jan Wikström's excellent Answers section, which ran right up to page 104, Shareware on page 105, then back to the Internet up to page 140. Fantastic! Almost 20 pages not devoted to 'Net-heads'!

While I didn't do more than glance at the rest, I read recently that the most common search word was 'sex', followed closely by 'nudes', yet the closest reference I saw was one to Net censor programs and *not* how to disable them. If you have so many users among your readers, are you perhaps acting against their majority interest?

Just when I was about to swear never to resubscribe, I re-read the reader tip on page 104 and used it to solve the spell checker problem in MS Works 4.0. So, you are forgiven and I hope you say thanks to Jan for me — but please, could someone there remember that you are a PC user's magazine and not all users are also Internet freaks.

M. Hill
South Perth, WA

Late subscription

I have subscribed to *PC User* for two years and have just renewed my subscription for a third year. I find the quality, content and value of the magazine and cover disc to be excellent but there are two things I think you should consider changing.

One is regarding the dispatch of sub-

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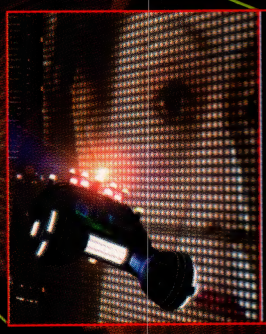

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Letter of the month: *Microsoft's cookie monster*

Microsoft has gone too far this time! I recently tried to download a patch file to fix a problem with one of its products and found I couldn't because Microsoft has now set its Website up in such a manner that unless you accept an Internet cookie from its server, you can't gain access to the MS patch and driver files.

This is inexcusable behaviour. What right does Microsoft have to demand that a customer accepts a cookie to be placed on their PC against their will? Funny how you can get straight into the sales info area without the cookies. Oh yes, they will sell you the product but when you want support, you have to play their marketing games.

On page 55 of the October '97 edition of *Communique* is an article telling MS users how to turn on the "warn before accepting cookie" facility in IE3, and IE4 has added the facility to permanently reject cookies, so someone at Microsoft must have thought it would be a popular idea to automatically reject cookies, yet Microsoft turn around and expect you to take theirs. What is going on here?

Borland, Corel, Lotus and Symantec have all sent me free update disks when I have had some problem that requires a more recent version, but Microsoft has never sent me anything except advertising and bills for support calls.

It's my computer, so how dare Microsoft require me to break my employer's policy of not accepting cookies if I want a patch to fix its dodgy software.

I trust that the journalists will condemn this outrageous act and other members of the public will express their disgust as well.

I am a Webmaster and am well aware of what a cookie is thank you, which is why I refuse to accept them.

Obviously instead of installing MS Office across our network, we shall now be buying SmartSuite or Perfect Office instead. At least they have a decent range of import/export filters, something that MS Office doesn't, but that's another story . . .

The Microsoft juggernaut has pushed this customer away for good.

Stephen McBride
Internet

How to enter

Each month PC User *selects a letter of the month, with the winner choosing a prize worth $100 from Webster's great range of computer books and Moving Books series of CD-ROMs. Just send your letter of no more than 300 words to* PC User *(see 'How to contact us'), and please include your postal address and daytime telephone number.*

Entry is open to all residents of Australia other than employees of ACP Publishing or Webster Publishing. Entry for January 1998 closes on December 1, 1997. The judges' decision is final. All entries become the property of ACP Publishing.

scription copies. It's annoying to find the latest edition at the newsagents before subscribers receive their copies. I received my issue 10 days after I first spotted it at the newsagents. Maybe as a bonus to subscribers, subscription copies could be dispatched a week before being available to the public.

The second (related) issue is regarding the method subscribers can win terrific monthly PC User Plus card prizes. I'm sure there are many readers in country towns and remote areas who receive their copies several days later than I do. What chance do they have of being the first caller through with their lucky number? I am sure many readers (I among them) who, rather than waiting for *PC User* to arrive in the mail, crowd their local newsagents to browse your magazine's content and check the lucky numbers, regardless of the signs proclaiming it not be a library. I would much prefer your original method of selecting one lucky winner each month. This way, everyone has an equal chance of winning.

Colin Clarke
High Wycombe, WA

Sincere apologies for the late arrival of the November edition, Colin and all subscribers. A combination of us being a little late to the printer (there's a lot of work that goes into the Internet SuperGuide!) and the printer being very busy meant the printer couldn't follow the usual policy of printing and posting subscriber copies first. We're trying to ensure it doesn't happen again. Regarding the PC User Plus prizes, we had to increase the numbers each month because not enough people were winning! Even now, few winners seem to claim their prize immediately after publication, so if you do have a winning number even going back a month or two, call us — you never know, the prize might still be unclaimed. — Ed ❑

Coming up

The Best of Tips & Tricks

Our all-time favourites and plenty of all-new tips on your favourite operating systems and applications. Plus the ultimate consumer's guide to enable you to shop safely, and more.

Answers correction

Sorry, folks . . . I left my brain in my other head the day I answered the question about drive letter confusion ('Nail down your ABCs', November '97, page 104) that is caused by DOS giving priority to primary partitions on several disks. Several readers have kindly pointed out the error, with various solutions. The simplest is this: when partitioning the second physical drive with FDISK, make the partition an Extended DOS partition. It will then go to the end of the queue and take the next available drive letter after all the logical drives on the first physical disk. — *Jan Wikström*

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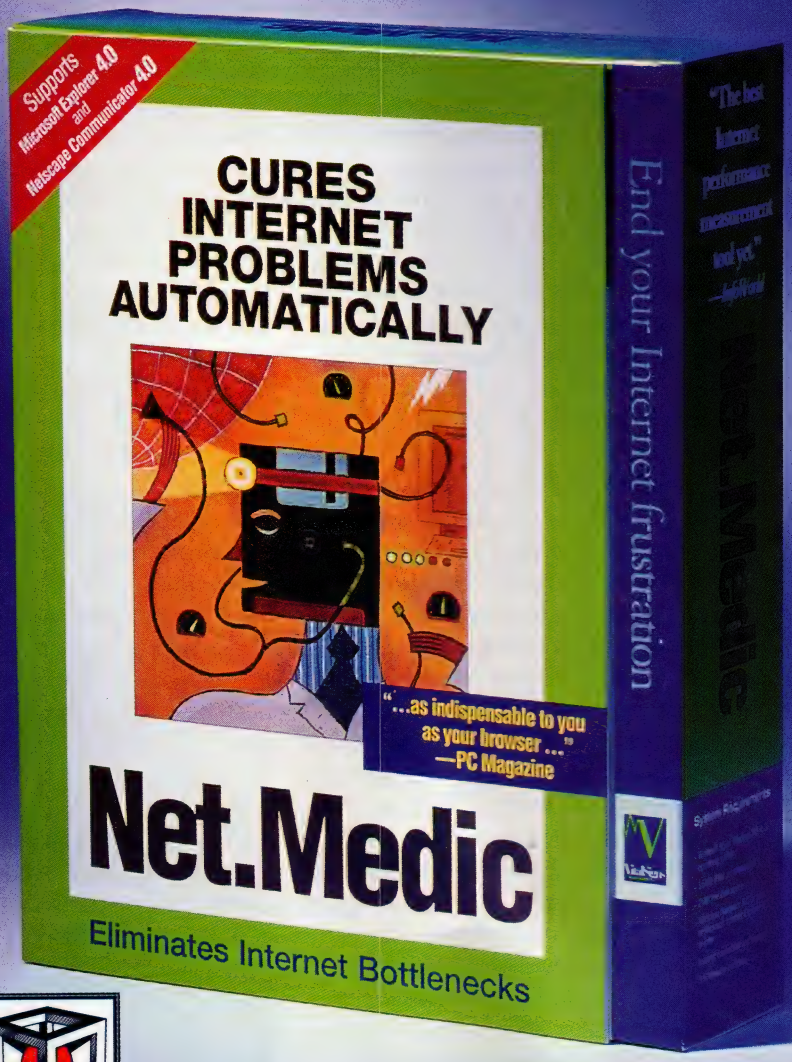

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DVD vs fast CD-ROM

Reviews

Digital Versatile Discs are destined to become the hottest consumer product to hit the market for years. But should you buy a DVD drive now, or settle for a 24-speed CD-ROM drive? Philip Moore tests these and other multimedia upgrades.

DVD in a nutshell

DVD has been a long time coming, but it is now starting to seriously appear with the first consumer DVD players from Philips, JVC and Sony, and DVD-ROM drives now being released by most major manufacturers. These are essentially a whole new kind of drive that will play special DVD discs, and which are backwardly compatible with existing CD audio and CD-ROM discs. A standard CD-ROM drive cannot play a DVD disc.

DVD originally stood for Digital Video Disc, being intended as a replacement for the venerable VCR and video tape as a medium for distributing films and video releases. This was changed to Digital Versatile Disc to reflect the DVD-ROM format, which is DVD intended for the computer, and can be used to distribute computer games and other software — just as music CDs became the basis for CD-ROM in the '80s. All the drives we tested for this feature were DVD-ROM drives.

A DVD disc can hold potentially up to 17Gb of data, compared to a CD-ROM which currently holds 650Mb. This is using double-sided, dual-layer discs which are a few years away yet, but already spelled out in the DVD specifications. A single-layered, double-sided disc will hold up to 8.5Gb, and a single-sided disc, which is the format currently being used, can hold up to 4.7Gb of data, or 133 minutes of high quality MPEG-2 video. Some of the early titles being released are actually double-sided, with a TV-cropped version of the movie on one side and a Widescreen version on the other: you just flip the disc.

MPEG-2 is the compression standard used on DVD discs (MPEG stands for Motion Picture Experts Group — the body that developed the standard). All DVD discs will use MPEG-2 to compress any video data. There are two competing standards for the audio side, however — MPEG-2's own audio compression, and Dolby AC-3. The US has adopted AC-3 as the audio standard, partly because this is what LaserDiscs have used till now, so customers are already geared up for this.

MPEG-2 is the standard adopted by PAL TV countries like Australia, although all DVD drives are supporting both audio standards and it is likely Dolby AC-3 will win out since this is already widely used by those who have bought surround sound systems for their home.

But DVD is only just beginning. At present DVD is like CD-ROM; it is a read-only format and needs to be manufactured. But soon there will be recordable DVD discs — called DVD+R — which will be the DVD equivalent of the current CD-R standard. And later DVD-RW (or DVD-RAM) for fully rewritable discs. Bear in mind these will not be a 'video' recorder, but a simple data recorder like CD-R or CD-RW (Rewritable CD) drives are at present. Rewritable DVD discs for capturing video in real-time, so you can record your favourite shows off TV, are still some years away. The VCR has quite a few years left in it yet.

So why bother with DVD? Well the image quality is about twice as good as VHS video tape; and it offers cool features like instant scanning (instead of having to Rewind or Fast Forward a tape), multiple soundtracks (for different languages, for example), and interaction so you can select from multiple camera angles when live broadcasts like sporting events offer this facility, or on interactive games/movies.

As for DVD-ROM, computer games will benefit most. The 8.5Gb of data space offers the potential for gigantic games, with full motion, full screen video and CD quality sound.

The data throughput required for DVD playback compares with a 10-speed (10x) CD-ROM drive; and there are already double-speed (2x) DVD drives (equivalent to a 20-x CD-ROM) available. The catch is that while it will work fine as a CD-ROM drive for now, for true DVD playback you will need to add a special decoder card. The

Creative PC-DVD Encore Dxr2

DVD decoder card included: Yes
Interface: ATAPI/IDE
Speed: 2x DVD (2.7Mb/s), 20x CD-ROM (3.0Mb/s)
Data buffer: 512Kb
Distributor: Creative Pacific (02) 9906 8887
List price: $799

Creative PC-DVD Encore Dxr2

The verdict: It may seem a bit premature to be awarding 'best buys' for such a new technology and with only three models tested, but we felt the Creative Encore kit offered good value for early adopters. You get a double-speed DVD drive, decoder card, and DVD games to get you up and running.

Verbatim and Creative Encore Kits reviewed in this feature come with both decoder card and drive.

DVD-ROM drives

Creative PC-DVD Encore Dxr2

This kit comes with a DVD-ROM drive and decoder card in one kit. One of only two such bundles we saw. The drive is a double-speed (2x) DVD, equivalent to a 20x CD-ROM, while the card is Creative's own Dynamic eXtended Resolution (Dxr2) DVD decoder.

Installation was a bit fussier than the other kit, as it requires a video pass-through cable to interconnect your regular VGA card, and on installing the software we were asked to specify which 'region' we were in (Australia is part of region 4 of the DVD copy protection scheme). All of this is well covered in the manual though, unlike the other kit which had no manual. Normally a pass-though connection such as this kit requires, degrades the screen quality somewhat, though this time it actually seemed to improve it, with a stronger contrast. Also on the card is an S-video output and S/PDIF digital audio output. An S-video cable is supplied, which comes with an RCA connector for composite output (like most TV sets and standard VCR decks). There is no analogue audio outputs on the coder card, but this comes from your regular soundcard anyway.

Software includes a driver disc and a demo CD, with DVD player software and some example MPEG-2 files. The kit supports MPEG 1 and 2 video, as well as MPEG-2 and Dolby AC-3 audio schemes.

In our benchmark tests the drive performed well, though compared to the other DVD drives in this feature, it was a bit slow.

Games included will be Claw and Wing Commander IV to whet your appetite. For the price this is an excellent starter's kit.

Multimedia jargon buster

CAV and CLV. Types of mechanisms used by CD-ROM and DVD-ROM drives to read the discs. See 'Speed is a relative thing' on page 14.

CD Audio. Also called Red-Book Audio, this is the standard originally defined for music CDs, and refers to any audio tracks on a CD or CD-ROM.

Composite and S-Video. When interconnecting video equipment there are two main socket standards used. Composite uses RCA connectors, like standard audio connections, whereas S-Video uses a special mini-din plug. S-Video theoretically provides better image quality.

DVD-ROM. DVD stands for Digital Versatile Disc, while ROM stands for Read Only Memory, meaning your computer can only read from a DVD-ROM disc, just like a CD-ROM disc, and not write to disk, like a floppy or hard disk. See 'DVD in a nutshell' on page 10 for more about DVD.

Full Duplex. The capability of a device such as a soundcard or modem to handle two sound-related tasks at once, such as being able to record a WAV file while playing back another.

MIDI (Musical Instrument Digital Interface). The standard protocol for connecting musical synthesisers, soundcards and your computer. Unlike a WAV file, a MIDI file is simply a string of commands on how to play an instrument. It does not normally contain any actual sound data. This is stored in the synthesiser on the soundcard itself.

MPEG. Named after the Motion Picture Experts Group which developed it, MPEG is a kind of codec (compression and decompression) standard designed specifically for motion video, enabling better video performance and more data to be fit on a disc. MPEG-1 is used for high-quality multimedia videos and older video discs. MPEG-2 is the new standard being used with DVDs.

PAL and NTSC. The two standards for video and TV. PAL is the system used in Australia and throughout most of Europe. NTSC is used primarily in the US. These two standards are incompatible, so don't buy an NTSC video overseas because it will not work in most VCRs in Australia.

PCI (Peripheral Component Interconnect). The current fast 'bus' standard used in modern PCs to transport data back and forward between the central processing unit and internal devices, such as a graphics card and, with the Diamond Monster Sound, a soundcard.

S/PDIF (Sony, Philips Digital InterFace). The standard for digital audio, used by digital tape recorders (DAT), LaserDisc players and most recently, DVD output.

Synth or synthesiser. A generic term for any musical instrument or computer chip that produces its sounds electronically.

WAV files. The most common sound file format. More specifically it's the format used for **Digital Audio**, the process where sound is digitised into bits and bytes. Think of it as a digital tape recorder.

Wavetable. A kind of musical synthesiser where short samples of real instruments are stored in a ROM (Read Only Memory) chip and played back via MIDI commands. The result is much more realistic sound than the old FM synthesis used on soundcards.

Pioneer DVD-A01

Easy to install, Pioneer's first foray into DVD-ROM drives is a good start. It supports both single and dual layer DVD and DVD-ROM discs, as well as the usual CD-ROM standards. It does not support CD-Recordable or DVD-RAM discs, however.

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Speed is a relative thing

The measure of how fast a CD-ROM drive is has always been judged by the rating on the front of the box that says 4x or 16x or most recently 24x. But this is really just a convenient shorthand and masks other important issues to what makes a fast CD-ROM — or DVD — drive, such as the average seek rate and the average access time.

The seek rate tells you how long it takes for the laser heads of the player to actually find the next bit of data it needs, while the access time is a measure of how long it takes to find and 'read' the next bit of data. These times are measured in milliseconds. There are various technical issues that come into play here with how the data is laid out on the disc, which I won't go into. Just know that the faster these figures are the better.

Also important can be the size of the data buffer. SCSI CD-ROM drives often have a larger data buffer and this is one reason they perform better as a rule. Most drives in this round-up have a buffer of 128Kb. Those with 256Kb or more tend to perform better, though this is by no means certain.

The 'x' rating gives you some idea of what the maximum data throughput rate of the drive should be. A single-speed (1x) drive was supposed to offer a data throughput of 150Kb per second. A double-speed (2x) had 300Kb/sec and so on. So a 24x drive should be able to pull data off the disc and out to the computer at a rate of 3.6Mb/sec. Pretty darn fast. Trouble is that to do this you have to spin the disc a lot faster and this has presented a problem.

Data is not written to CD-ROMs or DVD-ROMs in quite the same way as to your hard disk; and ROM drives do not read the data in the same way. Until recently, CD-ROM drives were designed with a read mechanism using a method called *Constant Linear Velocity* (CLV). This means that the data is read off the disc at the same constant speed no matter where on the disc it is reading from. Now when the CD spins in the drive, data on the outer rim of the disc will zip past the laser head faster than data written near the centre of the disc — think about it. To get around this, CD-ROM drives are constantly slowing down and speeding up the disc to ensure it can read back the data at a constant rate. While drives were 2x, 4x or even 8x this was okay. But now that they are hitting 24x, the drive is spinning so fast that this method is becoming too impractical and approaching dangerous. Hence *Constant Angular Velocity* (CAV) was created. This simply means the disc spins at a constant speed and the read mechanism takes the data at whatever speed it can. Much more logical really, and this is why you will get a data throughput rating now with a minimum and maximum figure quoted (it all depends where on the disc you are reading from).

Some manufacturers are having an each way bet with a method called Partial-CAV. This kind of drive uses the older CLV for the inner two-thirds of the disc, and then switches to CAV when reading data from the outer rim. This is because the outer rim of the disc is inherently the slowest part to read from, and CAV helps speed this up. However, ROM discs are read from the centre out, so most of the important data is in the centre rather than near the rim, so this method appears to have only limited success.

For drives that use CAV exclusively they will likely be more reliable and faster overall, though in our benchmarks CAV drives appear slower than they should. But at these speeds, frankly, any CD or DVD-ROM disc will read back quite fast enough for most people. Gone are the days when data throughput was such a critical feature, now that CD and DVD drives are approaching the same speed as your hard drive.

This is a single-speed (1x) DVD drive, which equates to a 10x CD-ROM drive. The access and seek times are pretty average, though our benchmark result for the Average Access time was actually better that that quoted by the manufacturer. The Overall WinMark was pretty much as one might expect from a 10x CD-ROM drive at 977Kb/sec, and as such out-performed the double-speed DVD drives in this round-up. While this is impressive, it could be slightly erroneous due to the new CAV technology.

While this drive is now outdated, the price is good — although you will need to buy a separate decoder card to play DVD discs.

Pioneer DVD-A01

DVD decoder card included: No
Interface: ATAPI/IDE
Speed: 1x DVD, 10x CD-ROM (1.5Mb/sec)
Data buffer: 512Kb for DVD, 128Kb for CD-ROM
Distributor: Pioneer (03) 9586 6300 or SCSI Corp (02) 9894 6033
List price: $250 (approx.)

Verbatim ActiveMEDIA DVD Upgrade Kit

This kit comes with a Hitachi GD-2000 double-speed DVD-ROM drive and Quadrant's PCI Cinemaster DVD decoder card. This card, used by most manufacturers for testing their drives, will decode DVD/MPEG 2 or MPEG 1 streams, and offers video outputs on the back in composite (RCA) or S-Video connectors so you can connect it to a TV. It supports both PAL and NTSC formats. There are also audio outputs on the back of the card for a standard phono plug and S/PDIF digital output. It will decode either MPEG2 or MPEG1 audio, as well as Dolby AC-3 soundtracks.

Also included are two DVD-ROM games — Spycraft and The Daedalus Encounter. These are really DVD enhanced versions of existing games and while they certainly run smoothly and are great games to boot, they are only a hint at what could be possible with

Verbatim ActiveMEDIA DVD Upgrade Kit

DVD decoder card included: Yes
Interface: ATAPI/IDE
Speed: 2x DVD (2.76Mb/s), 20x CD-ROM CAV (1.29-3.0Mb/s)
Data buffer: 512Kb for DVD, 128Kb for CD-ROM
Distributor: New Magic (03) 9532 8553
List price: $1199

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The Philips DVD 840

While all the drives we tested for this feature were DVD-ROM drives, there is a whole other side to DVD. That of the home entertainment machine designed to connect to your television.

A DVD-Video player of this kind is not intended to replace your existing VCR, rather supplement it. You still need the VCR to record stuff off TV for playback later on. Recordable DVD discs are some years away yet. The DVD-video player is meant for playing back pre-recorded DVD-video discs, whether purchased or hired from your local video rental store.

The Philips DVD 840 is a good example of what this new wave of consumer electronics toys offer, since Philips has been instrumental in developing the new standard along with other major companies in both the consumer electronics and computer industries. The player supports both PAL and NTSC standard discs. It can play older Video CDs (which used MPEG-1 compression) as well as standard music CDs. For sound the player supports both Dolby AC-3 and MPEG-2 formats and will automatically detect whichever is on the disc.

A remote control is supplied with Jog/Shuttle controls, and you can get rock-steady freeze frames because of the digital medium. Slow motion at one-half or one-eighth the normal speed and fast search at 2x or 8x normal speed. Also available is a zoom control to zoom into different regions of the screen. It can also be used as a Karaoke machine — if you're into that sort of thing.

By the time you read this there will likely be several other models from rival manufacturers to choose from. Village Roadshow recently announced the release of a wide range of movies on DVD format. Other distributors have been holding back though, while various technical issues are resolved, but should be releasing movies and videos on DVD "real soon now". So keep an eye out at your local video store for the DVD logo.

The Philips DVD 840 is priced at $1499. Contact Philips Australia on 13 13 91 for more details.

DVD-ROM once it gets up and running.

One notable omission from this kit, however, is documentation. There is only a single printed sheet with terse step-by-step installation instructions. There are no other manuals of any kind. This is rather inadequate considering the likely buyers of such a kit and the potential problems one might have.

The fact that the drive is a double-speed (20x CD-ROM) is great, though because it uses Constant Angular Velocity (CAV) the overall data throughput as indicated by our WinMark score was less than one might have expected (less even than the single-speed Pioneer DVD above). It appears this is a necessary by-product of CD-ROM/DVD drives that use CAV. The Average Access time was respectable for a DVD. It also has the advantage of being able to read CD-R and DVD-RAM (once they appear) discs.

The Cinemaster card is an excellent companion, supporting all possible standards and offering a choice of outputs.

Other drives

Many other manufacturers are about to release their DVD drives — both set-top boxes for your TV and DVD-ROM drives for your PC. Yamaha, Sony, Toshiba and others all have drives imminent. And Diamond has a DVD-ROM drive kit (called the Maximum DVD kit) also about to hit our shores, which will include a Toshiba drive and several DVD game titles.

DVD-ROM drives compared

	Pioneer DVD-A01	Verbatim ActiveMEDIA DVD Upgrade Kit	Creative Encore PC-DVD Dxr2
Average Access time*	200ms (DVD); 150ms/144ms (CD-ROM)	150ms (DVD); 90ms/135ms (CD-ROM)	170ms (DVD); 100ms/188ms (CD-ROM)
WinMark**	977Kb/sec	971Kb/sec	942Kb/sec
Performance rating	★★★ ½	★★★ ½	★★★
Overall value	★★★ ½	★★★ ½	★★★★

**Measured in milliseconds. The lower the figure the faster the drive. The first figure is what the manufacturer claims, the second figure is according to WinBench 97 benchmark results.*
***This is a measure of the true overall performance of the drive. The higher the figure the better the result.*

Pioneer DVD-A01

The verdict: This is a good example of the first generation of DVD, but it's already behind the times, being only a single-speed DVD drive. You'll also need to buy a separate decoder card to play DVD discs. Our advice: wait until Pioneer releases its double-speed DVD drive in January '98.

Verbatim ActiveMEDIA DVD Upgrade Kit

The verdict: Pity about the lack of documentation and high price, but otherwise this is a great kit — in some ways superior to the Creative Encore — including a double-speed DVD drive, decoder card and DVD games.

How we tested

All the CD-ROM and DVD-ROM drives were tested on the same 200MHz Pentium Pro system from Digital. We used Ziff-Davis's WinBench 97 benchmark test suite to test the drives. This does a wide range of random and linear reads of different sizes to come up with an overall average of the drive's performance.

Lacking any specific DVD-ROM tests, we tested the DVD-ROM drives as

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CD-ROM drives compared

	Pioneer DR-A 24x	Creative inFRA Kit 3600	Plextor 12/20 Plex	Sony CDU-611	Panasonic CR-585-B	Panasonic CD-508-B	Hitachi CDR-8330
Average Access time*	75ms/89.2ms	From 110ms to 180ms/124ms	NA/106ms	90ms/94.6ms	85ms/95.7ms	85ms/94.3ms	90ms/82.4
WinMark**	1390Kb/sec	1150Kb/sec	1430Kb/sec	1250Kb/sec	1270Kb/sec	1330Kb/sec	1320Kb/sec
Performance rating	★★★ ½	★★★	★★★★	★★★	★★★	★★★★	★★★ ½
Overall value	★★★★	★★★ ½	★★★ ½	★★★★	★★★★	★★★★	★★★★

**Measured in milliseconds. The lower the figure the faster the drive. The first figure is what the manufacturer claims, the second figure is according to WinBench 97 benchmark results.*

***This is a measure of the true overall performance of the drive. The higher the figure the better the result.*

if they were CD-ROM drives, although the results will still be useful in comparing the DVD drives against each other.

Because the new CAV technology is used in all these drives (see 'Speed is a relative thing' on page 14), it's best to read these results only as a direct comparison between the drives featured in the story.

Fast CD-ROM drives

Creative Blaster inFRA Kit 3600

This is a 24x drive with a difference. It comes with an infra-red receptor on the front of the drive and a remote control. Although the drive was instantly recognised by Windows 95, a Win 95 driver is provided on floppy disk, along with the necessary driver for DOS/Windows 3.1 users. This Win 95 driver seemed to slow the drive down though, so the results quoted in our benchmark table are based on the drive running without this driver.

Creative Blaster inFRA Kit 3600

Interface: ATAPI/IDE
Speed: 24x (3.6Mb/sec)
Data buffer: 256Kb
Distributor: Creative Pacific (02) 9906 8887
List price: $249

Sony CDU-611

Interface: ATAPI/IDE
Speed: Up to 24x CAV (3.6Mb/sec)
Data buffer: 256Kb
Distributor: Sony (02) 9887 6667
List price: $199

There is also a CD-ROM disc which comes with a suite of programs for the inFRA drive, including Multimedia Deck and inFRA Web tools. The Media deck is simply a software player for CD Audio, MIDI and WAV files, while the inFRA Web is a version of Microsoft's Internet Explorer designed for use with the remote control. The rest of the CD is filled with sample WAV and MIDI files.

The drive comes with controls on the front for audio CD playback and a mode button to switch between Normal and Special modes (special offers better stability and disc reading). The manuals cover installation and use of the drive very well.

Sony CDU-611

Like most other standalone drives reviewed here, this unit came as a simple upgrade drive. But being IDE, you just plug it in and under Windows 95 it is automatically there.

Under our test, this drive performed well, but not spectacularly. The best data throughput we could get was 1.79Mb/sec, well under the optimal 3.6Mb, making this one of the slower 24x drives we tested. This is despite a decent 256Kb buffer and fairly good access speed. This is again a by-product of the CAV technology used, so these figures should be taken with a grain of salt.

Plextor 12/20 Plex

Interface: SCSI-2
Speed: 12/20x (CD-ROM)
Data buffer: 512Kb
Distributor: SCSI Corp (02) 9894 6033
List price: $305 (internal); $472 (external)

Plextor 12/20 Plex

This is a SCSI drive, so it requires you have a computer with a SCSI interface card. Most systems are not sold with SCSI as a matter of course. Consequently this drive is really aimed more at the power users out there.

Although having a maximum speed rating of 'only' 20x, this drive performed much better than any 24x IDE drive, and certainly outshone the 2x DVD drives here. The SCSI interface connection, and the 512Kb of Buffer memory all helped make this possible, not to mention the faster access speed.

While it does cost more, this was a very good performer and would go well with any serious SCSI setup.

Pioneer DR-A 24x

A good reliable drive, if not outstanding. From our benchmarks the overall results were reliable, with very respectable seek and access times recorded. The best data throughput recorded was just over 2Mb/sec, which considering that the drive uses a combined CLV/CAV engine, is pretty good. See the box 'Speed is a relative thing' on page 14 for details on this.

A decent performer, which for the price makes it one of the best value drives we tested.

Pioneer DR-A 24x

Interface: ATAPI/IDE
Speed: 12x/24x CLV/CAV (1.8Mb-3.6Mb/sec)
Data buffer: 128Kb
Distributor: Pioneer (03) 9586 6300
List price: $220 (approx.)

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Interfacing with your drive

All DVD and CD-ROM drives these days use one of the two standard interface types — ATAPI/IDE or SCSI. No-one uses proprietary interfaces (Panasonic, Sony, Mitsui) anymore, which is what many of the old upgrade kits used (note, however, that the CD audio connection on your soundcard may still conform to one of these standards). This means if you currently have a soundcard and CD-ROM drive that use such a proprietary system, you may not be able to simply swap the CD-ROM drive for a new one.

Exceptions to this are those later model soundcards that supported ATAPI/IDE as an interface, or if your motherboard supports Enhanced-IDE (E-IDE) drives. This is unlikely on anything less than a Pentium, so check first. The solution may be to buy a new E-IDE Interface card for your hard drive and CD-ROM, however, in some cases the upgrade may not be possible short of buying a new motherboard or a whole new system.

Most of the drives we tested for this feature were ATAPI/IDE drives which connect to exactly the same connector inside your PC as your hard drive does. Under Windows 95 an ATAPI CD-ROM drive is instantly recognised and installed in the system. No messing around with driver disks or configuration software.

For those still using DOS/Windows 3.1x, a driver will be required and should be supplied with the drive on a floppy disk with a simple installation routine.

Likewise, a SCSI CD-ROM drive will be instantly recognised by Windows 95, provided you have the SCSI connections correct. This will require a SCSI interface in the PC, which does not come as standard with most computers. The advantage of SCSI is you can have an external drive if you prefer (ATAPI only supports internal drives), and SCSI drives tend to be faster and more reliable — and also more expensive. For most people an ATAPI/IDE type drive is fine. Power users will look to getting SCSI.

Panasonic CD-508-BPA

Another drive supplied simply as is and which installed easily under Win 95. This is a 24x SCSI drive, so it requires a SCSI interface in your system. As such it comes with a respectable 512Kb buffer and a good access speed of 85ms, though our benchmark reported 94.3ms.

In our benchtests it performed very well, with an overall WinBench of 1330Kb/sec. Better than any of the IDE's reviewed here (including its ATAPI cousin) but outdone by the Plextor SCSI drive overall. A good choice for those wanting that bit extra that SCSI offers.

Panasonic CR-585-B

With full CAV performance this ATAPI/IDE drive had decent access speed and data throughput in our benchtests, though it was still out-done by most of the other ATAPI drives in this round-up. Still, at the price, this is an excellent buy if you're just after a cheap 24x drive that will get the job done.

Hitachi CDR-8330

A very respectable 24x drive, despite a buffer of only 128Kb. Along with the Pioneer drive reviewed above, this was one of the best overall performers. Our benchmark produced an Average Access time better than that quoted by the manufacturer. Not as good as a comparable SCSI drive, but still an excellent IDE model at a very reasonable price.

DVD or CD-ROM?

After all this, the big question is: should you buy a fast CD-ROM or one of the newer DVD drives?

If you're into games, you should probably go for one of the DVD kits which offer a double-speed (2x) DVD drive and decoder card. If you can't afford this now, it may pay to wait until the prices of these kits drop, as they surely will.

Those not into games could save a bit of money by getting a 24x CD-ROM drive. After all, CD-ROMs will still be used as a distribution medium for some years yet.

But should you buy technology which will soon be obsolete? It is unlikely there will be anymore significant development on CD-ROM drives from now on — 24x is as fast as they are likely to get. DVD-based games will start appearing very soon, and going into 1998 DVD will be an increasingly popular distribution medium for the hottest games and multimedia titles. By this time next year all new computers will ship with DVD drives instead of CD-ROM.

A 2x DVD drive itself doesn't cost a lot more that a 24x CD-ROM drive, so why not go for the newer technology if you can afford it?

Panasonic CD-508-BPA

Interface: SCSI
Speed: Up to 24x CAV (3.6Mb/sec)
Data buffer: 512Kb
Distributor: Panasonic (02) 9986 7400
List price: $280 (approx.)

Panasonic CR-585-B

Interface: ATAPI/IDE
Speed: Up to 24x CAV (3.6Mb/sec)
Data buffer: 128Kb
Distributor: Panasonic (02) 9986 7400
List price: $180 (approx.)

Hitachi CDR-8330

Interface: ATAPI/IDE
Speed: Up to 24x CAV (3.6Mb/sec)
Data buffer: 128Kb
Distributor: Hitachi (02) 9888 4100
List price: $183

Hitachi CDR-8330

The verdict: There wasn't a lot between any of the CD-ROM drives we tested. All were 24x and performed accordingly. While the SCSI drives were faster they were also significantly more expensive. Finally we decided on the Hitachi CDR-8330, for its superior performance and price overall. Honourable mentions to the Plextor 12/20 Plex SCSI drive, which performed best overall, although it costs quite a bit more, and the Pioneer DR-A 24x IDE drive.

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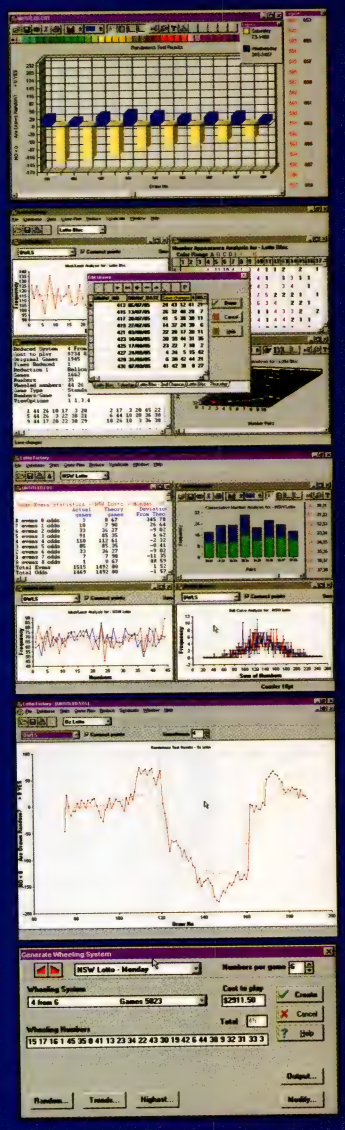

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Superior sound

Reviews

You may be surprised just how a good soundcard can improve your multimedia experience. Philip Moore compares the best new cards.

Creative AWE-64

We had a first look at this card in the September '97 edition (page 57), but didn't have the chance to really run the full gamut of audio tests on it. This time we did and it has come up very well indeed.

We tested two versions of the card, the Value Edition and the AWE-64 Gold. Both cards use the same Wavetable MIDI synthesiser as the previous AWE-32 card. The new cards derive their name from the fact that they offer a further 32 instrument voices via a software synth using WaveGuide technology.

WaveGuide is different from Wavetable in that it doesn't simply play back samples of real instruments which are stored in a ROM chip on the card, it recreates the properties of any instrument on-the-fly in RAM using acoustic physical modelling. But there are also some limitations to using the WaveGuide synth. You cannot record its output as a WAV file as you can with the hardware wavetable synth; and while the card offers full-duplex capabilities (being able to record a WAV while playing back another) this is not possible while playing the WaveGuide synth.

However, both cards did very well in our audio tests, with the Gold card doing just a bit better with a flatter frequency response overall and slightly less distortion.

Either card would be a good choice though, if you are looking to upgrade your PC's sound. Both are very easy to install and, for musicians, both offer musical sampling capabilities. The Value Edition comes with 512Kb of sample RAM on-board, while the Gold offers a hefty 4Mb as standard, but both are upgradeable.

The Gold card also includes a 20-bit S/PDIF output for those who require pure digital output to a DAT recorder.

Creative AWE-64 Gold

From: Creative Pacific (02) 9906 8887
URL: http://www.cppl.com.au
List price: $^^^

Audio: Inputs — Gold plated Mic In and Line In, CD Audio Connector. Outputs — Gold plated RCA Line Outs. Full Duplex support, S/PDIF output
MIDI: 32-voice EMU8000 wavetable synth with effects, Plus WaveGuide software synth for an addition 32 voices. MIDI /Joystick connector. 4Mb Sample RAM (upgradeable to 24Mb)
System requirements: DOS 5.0, Windows 3.1x or 95, Pentium 90MHz or higher, 8Mb RAM (16Mb Recommended), 16-bit ISA Slot, CD-ROM drive for installation, speakers or headphones, modem for Internet access.
Extras: Creative 3D Sound, WebPhone, Internet Explorer 3.0, Real Audio player, text Assist, Voice Assist, MIDI Orchestrator, MM Deck, WaveStudio, Soundo'le, Vienna Sound Font Editor,

Creative AWE-64 Value

From: Creative Pacific (02) 9906 8887
URL: http://www.cppl.com.au
List price: $199

Audio: Inputs — Mic In, Line In, CD Audio Connector. Outputs — Line Out, Speaker Out.
MIDI: 32-voice EMU8000 wavetable synth with effects, Plus WaveGuide software synth for an addition 32 voices. MIDI/Joystick connector. 512Kb Sample RAM (upgradeable to 28Mb)
System requirements: DOS 5.0, Windows 3.1x or 95, Pentium 90MHz or AMD K5 90MHz or higher, 8Mb RAM (16Mb Recommended), 16-bit ISA Slot, CD-ROM drive for installation, speakers or headphones, modem for Internet access.
Extras: Creative 3D Sound, WebPhone, Internet Explorer 3.0, Real Audio player, MM Deck, WaveStudio, Soundo'le, Vienna Sound Font Editor,

Creative AWE-64

The verdict: Although not a radical advance over the earlier AWE-32, both the AWE-64 Value and Gold are excellent cards. And considering how good the audio quality is, and how easy they are to install, only the fussiest of audiophiles would want to look elsewhere. The price of the Value card in particular makes it outstanding value.

Diamond Monster Sound 3D

Diamond has been pretty quiet of late in the soundcard area, but with this new card they have come back with a vengeance, boasting a number of important firsts. It is the first PCI-based soundcard intended for the average punter. This means you need a Pentium to install the card, but it also means audio processing is much faster and takes less CPU time, so your computer can concentrate on other things like actually driving the game.

While 3D sound has been a selling point for soundcards for some time, this is the first true 3D audio system on a games card. Based on the A3D Interactive technology developed by Aureal originally for NASA, it uses Windows 95's DirectSound drivers to give a truly three-dimensional audio experience. Sounds can come from

Diamond Monster Sound 3D

The verdict: Being PCI-based and offering a revolutionary step forward in 3D surround sound, the Diamond Monster Sound is the first significant new card to appear in a long time and deserves to do well. It has received support from many games producers, and comes supplied with three games with 3D sound.

every side above and behind you, from just a regular pair of powered stereo speakers. It can also be used with four speakers, two in front and two behind, to get the full cinematic effect.

Installation of the card was straightforward. The only proviso is that the Monster Sound will not work with DOS-mode games, so they recommend you keep your 'legacy' soundcard for these cases. A sturdy patch cable is supplied so you can connect the output from your old card to the input of the Monster Sound. The Monster Sound can also be used in Sound Blaster emulation mode for running such games in a DOS box in Windows 95. Having two soundcards installed is not an ideal situation, so if you have abandoned DOS games completely, we recommend you remove the old card and just install the Monster Sound.

Utilities include the usual audio tools, Internet Explorer and DirectX drivers, plus Sound Blaster Emulation software. Apart from installation instructions there is no manual to speak of. Further help is provided in HTML format on the installation CD.

Audio processing is handled by an Analog Devices DSP (Digital Signal Processing) chip, and there is wavetable MIDI daughterboard attached with 2Mb of samples, giving 32 voices of realistic music. A MIDI/joystick port is also on the card.

The card boasts a signal-to-noise ratio of -80dB (A-Weighted). In our tests we achieved -74dB, which is still a good result. Frequency response was also good, comparable to the Sound Blaster AWE 64, though it dropped off slightly earlier in the high frequencies and had a bit more in the bottom end (bass frequencies).

Diamond Monster Sound 3D

From: Chips & Bits (02) 9680 9600
URL: http://www.diamondmm.com
List price: $379

Audio: Inputs — Mic In, Line In, CD Audio Connector, Modem In Connector, AUX Connector. Outputs — 2 stereo Line Out jacks.
MIDI: 32-voice wavetable synth (2Mb ROM) with effects, MIDI /Joystick connector.
System requirements: Windows 95, Pentium 90MHz or higher, 8Mb RAM (16Mb recommended), 12Mb free hard disk space, CD-ROM drive for installation, existing soundcard for older DOS games, PCI Slot, powered speakers and/or headphones.
Extras: 3D Sound, Sim Copter, Outlaws, Rocket Jockey, Tigershark, WorldView VRML software.

How the soundcards compare

	Creative AWE-64 Value	Creative AWE-64 Gold	Diamond Monster Sound 3D
Audio test results*			
Output level*	789mV	760mV	724mV
SNR*	-77dB	-77dB	-74dB
THD+N*	0.034%	0.027%	0.030%
IMD*	0.07	0.07	0.16
Ratings			
Sound quality	★★★★	★★★★ ½	★★★★
Overall value	★★★★ ½	★★★★ ½	★★★★ ½

* *See 'How we tested & what the results mean' on page 23.*

How we tested & what the results mean

The soundcards were tested at ACP Labs using the Audio Precision System 2, the industry standard for testing audio equipment. This unit tests the following key measurements:

Frequency Response. This is a measure of how accurately the soundcard can record and playback the full range of frequencies that are audible to human hearing. This range is generally accepted as 20Hz to 20kHz. These results are displayed as graphs on page 26. Zero dB (decibels) on the chart is set using a 1kHz sine wave (a pure tone) with an output of 775mV. We then recorded and played back a series of frequencies in half-octave steps from 20Hz to 19.2kHz.

The ideal frequency response curve would be a flat line at 0dB from beginning to end. This of course is never quite the case. A deviation of plus or minus 1dB from 0dB could be considered acceptable for soundcards. The point at which the level drops to -3dB at either end of the range is regarded as the cut-off points, and these frequencies are quoted as the frequency response; for example, 60Hz to 18kHz. All frequency response tests were done un-weighted

Put simply, the flatter the curve the better. Take particular note of any large bumps or dips in the curve, and where the rolloff occurs at the beginning and end.

Signal to Noise Ration (SNR). This gives an indication of how quiet the soundcard is. It is essentially the difference between the loudest signal the card can play before distortion, and the noise the card produces on its own, with no signal at all. This is expressed in decibels and the greater this figure the better. The optimum SNR for 16-bit digital devices is -96dB, but this is rarely achievable in the real world. A Signal to Noise ratio of

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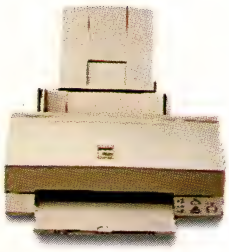

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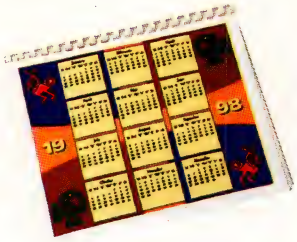

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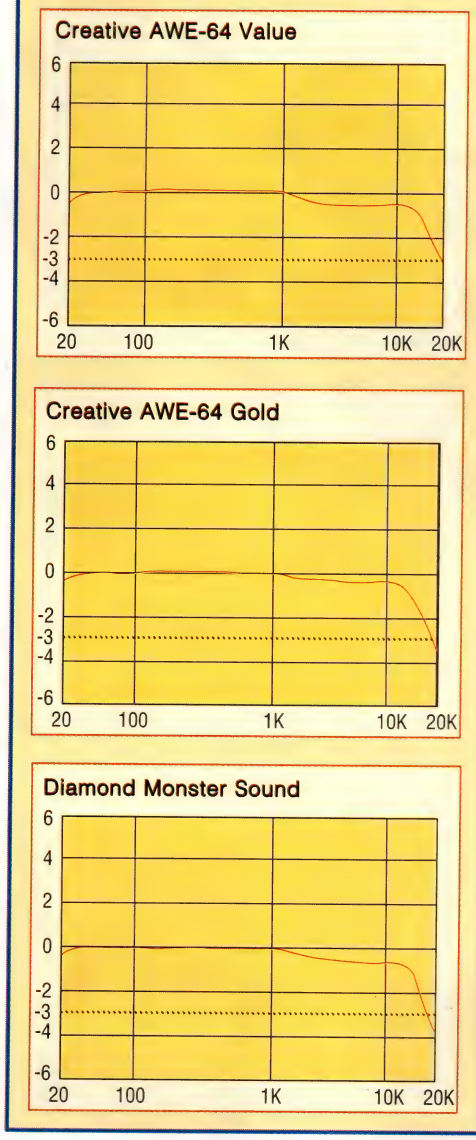

-75dB is acceptable. Anything less and the noise may be annoyingly audible.

The signal to noise ratio was measured by recording a 1kHz tone at the highest possible level before distortion, then playing this back out the soundcard, setting the output level as 0dB, and then removing the signal. Any remaining signal is noise generated by the card itself.

Total Harmonic Distortion + Noise (THD+N). This is the most common method of measuring the amount of distortion an audio device produces. A 1kHz tone was recorded and played back out the soundcard. A notch filter attenuates out the 1kHz tone and what remains is any wideband noise, AC mains hum, and any other unwanted signals.

The lower the THD+N figure the better. Anything above 0.1% is getting into the unacceptable range.

Intermodulation Distortion. Of course, in the real world people don't listen to sine waves. Music, voices and other audio content are complex jumbles of many waveforms. These naturally combine to create what are called harmonics — extra frequencies which are born out of the combination of other fundamental frequencies. This is what gives different musical instruments their distinctive tonal quality, and is as it should be.

Soundcards and other audio devices also tend to create harmonics through their circuitry. These are generally not pleasant and are to be avoided as much as possible. Measuring the intermodulation distortion is the most common way of determining how much of this unwanted distortion the audio device produces. This was done by passing two tones through the soundcard — 1kHz and 50Hz, with levels set on a 4:1 ratio (as outlined by the Society of Motion Picture and Television Engineers — SMPTE). These two tones naturally produce certain harmonics. These harmonics are then filtered out along with their fundamental tones. What remains are any harmonics produced by the soundcard itself, plus its inherent noise. The measurement is expressed as a percentage of the level of the original fundamental tones. Anything above 0.1% is approaching an unacceptable level of distortion.

Software synthesisers

It's ironic, and rather disappointing, that the two most outstanding MIDI synthesisers from our soundcard feature last year are now available in software-only form. Yamaha still offers its DB50XG daughterboard and Waveforce SW60XG MIDI card, but neither has been updated.

Virtual Sound Canvas VSC-88Me

From: Roland Australia (02) 9982 8266
URL: http://www.rolandcorp.com
List price: $195
Audio: N/A
MIDI: Wavetable emulation of GM & GS standards.
System requirements: Windows 95, Pentium 166 or higher, or Pentium with MMX, 16Mb RAM (256K L2 Cache recommended), 7Mb free hard disk space, built in 16-bit sound device or soundcard.
Overall value: ★★★★

Instead there is the Novastation software synth which uses the DB50XG sound set.

Roland, maker of the trendsetting Sound Canvas range, has given up on PC soundcards to concentrate on its professional music gear. The SC-10, SC-15 and RAP-10 soundcards are now only available as old stock, and the only new product Roland offers is a new version of their Virtual Sound Canvas software synth (see below).

Virtual Sound Canvas VSC-88Me

The Sound Canvas synthesiser has been the standard by which all other wavetable soundcards have been measured against for years. And although now several years old, in our opinion only one other soundcard could match it — the Yamaha DBX-50.

The Virtual Sound Canvas sought to bring this superior MIDI soundcard to your desktop without the need for any extra hardware. With a reasonably fast computer (meaning a Pentium), the Virtual Sound Canvas gave you great MIDI music playback for a fraction of the cost of a new soundcard and none of the installation hassles.

This new version is based on more recent models of the Sound Canvas technology and offers more controls over playback. Essentially it installs as a MIDI driver in your Windows system. Then whenever you or any application chooses to play a MIDI file, it automatically loads the player software and

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plays the file as Wave output on your existing soundcard's digital audio outputs. This is more processor intensive than playing the file on a true hardware MIDI synth, but with a reasonably grunty machine there's no problem. It supports all General MIDI and GS type files, and this version is also optimised for MMX Pentium machines.

A great way to easily add high quality MIDI file playback to your computer.

Novastation

This program uses the sound set from the Yamaha DB50XG soundcard, which was our Best Buy in last year's round-up. It uses Yamaha's XG format, which is akin to the Roland GS standard, and is also fully compatible with General MIDI.

The Novastation is in effect this excellent wavetable daughterboard synth in software form and, like Roland Virtual SoundCanvas above, it installs simply as a MIDI driver, which automatically loads a player when called up. It plays the music back through your existing soundcard's digital audio channels.

There are two versions of the synth supplied: one for MMX machines and one for non-MMX or slower (meaning a 100MHz Pentium or less). Like last year there is not a lot between these two excellent MIDI synths, even in software form. Either one would suit admirably any setup that has an existing soundcard but needs to add decent MIDI playback. The Novastation wins out, however, in price.

Novastation

From: Auslink 1800 686 400
URL: http://www.auslinx.com.au
List price: $99
Audio: N/A
MIDI: Wavetable emulation of GM & XG standards.
System requirements: Windows 95, Pentium 100 (normal mode) P166 or higher with MMX(Enhanced Mode), 16Mb RAM, 10Mb free hard disk space, 16-bit stereo soundcard.
Overall value: ★★★★ ½

3D graphics cards

Reviews

Julian Schoffel arms you with the necessary information you'll need to know when you go shopping for a new 3D card this Christmas.

Well, you know what they say: "One year in the computer industry is like 10 years anywhere else . . ." This phrase continues to ring true, particularly in the area of 3D acceleration. It was only 12 months ago that *PC User* completed its first round-up of 3D hardware, and in the ensuing year almost an entire generation of 3D cards have now completed their life-cycles and subsequently been relegated to 'has-been' status.

At the time of writing, the 3D accelerator market was just about to enter its third phase, that is to say many 3D chipset and card vendors were about to release their third generation 3D products. For this reason *PC User* decided to hold off on doing a full-tilt 3D hardware comparison, preferring instead to offer PC gamers a broad overview of what has happened over the past year and what lies just around the corner.

3D chipsets

When discussing 3D hardware it is far easier to refer to the actual 3D chipsets themselves, rather than the various cards. Most of the cards using a particular chipset share almost identical performance and feature traits. The only differentiating features are the type and amount of on-board video RAM, whether or not the card combines 2D/3D or 3D only, and the issues of driver support and general build quality.

Outdated

In the cruel world of PC hardware, the 3D chipsets in this category have well and truly seen their best days. Consequently, it would be wise to avoid purchasing any cards which still use them because bigger, better and much faster 3D products are just over the horizon.

S3 ViRGE: One year ago, cards based on the S3 ViRGE chipset didn't look too bad. Unfortunately the original ViRGE chipset just couldn't compete with the sheer speed of newer 3D hardware. This explains why ViRGE-based cards are noticeably absent from the third round of 3D accelerators with S3 preferring to focus on creating their next-gen products instead.

Rendition Verite V1000: The Rendition Verite V1000 was one of the most hyped 3D chipsets because Microsoft used it extensively when developing its Direct3D API (Application Programming Interface). The V1000 did offer one of the most comprehensive 3D feature sets, but found itself rapidly eclipsed by much faster opposition like the Matrox Mystique and 3Dfx-based cards. However, Rendition has not been idle and its new V2200 and V2100 chipsets will feature heavily in the next round of 3D cards.

Current heavyweight champions

These are the 3D chipsets which currently enjoy the most software support, also offering the fastest and most comprehensive 3D performance. Their makers would probably be exchanging worried glances though, because some impressive new 3D competitors are about to dive into the fray. Regardless

of this, you can still feel pretty safe buying any card which uses one of the following chipsets:

3Dfx: This is undoubtedly the current, undisputed king of 3D acceleration. While the 3Dfx chipset is not particularly new, it was so far ahead of the competition that software developers on the lookout for the best vehicle to showcase their new titles turned to it in droves.

3Dfx-based products come in two flavours: the original 3D-only **Voodoo Graphics Engine** and the newer 2D/3D combination known as **Voodoo Rush**.

In terms of sheer speed, whether running under Microsoft's Direct3D or its own proprietary Glide API, 3Dfx products have consistently outgunned all of the competition. 3Dfx is also one of the only chipsets to currently support a cut-down form of the Silicon Graphics' API — OpenGL. This will be particularly important to those of you who wish to play new 3D games based on id Software's OpenGL Quake engine, ie, Hexen 2, Quake 2 and so on.

One of the most attractive features of the 3Dfx chipset is its processor independence, meaning that gamers using anything from a Pentium 90 to a Pentium 200 can expect a similar jump in 3D performance.

While the 3Dfx Glide API will be natively supported by a large portion of new 3D games released into 1998, it will gradually become less of an issue as more generic APIs like Direct3D and OpenGL gain popularity with software developers.

One down-side to 3Dfx products is a lack of support for letterboxed 3D, important for professionals but fairly irrelevant to gamers.

The only product to seriously challenge 3Dfx is the new NVIDIA Riva 128 chipset, but we'll get to that later.

Power VR PCX1: The PCX1 was developed by NEC and VideoLogic. It is a very innovative product which minimises bandwidth problems (soon to be resolved by Intel's new Accelerated Graphics Port — see box 'Accelerated Graphics Port (AGP): How will it affect 3D acceleration' on page 34) often associated with low-end 3D hardware by performing Z-buffering on the actual PCX1 chip itself.

It also supports advanced 3D features like lighting and reflection effects. Although the Power VR consortium has managed to get some software developers to design its native Power VR SGL API, these titles are nowhere near as prolific as 3Dfx optimised games. And while the PCX1 does run under Direct3D, you can only expect mid-ranged performance unless you have a very high-specced machine.

Unlike the 3Dfx chipset, the PCX1 is hardware dependent, which means you need a fast machine (nothing under a Pentium 166) to enjoy solid 3D frame rates. Gamers may like to consider the next-gen product based around the new PCX2 chipset instead (see below).

So all in all, the Power VR PCX1 is quite a solid, middle-of-the-road 3D chipset. But with newer products com-

Multimedia jargon buster

2D image degradation, 2D video signal degradation: Some pass-through cards have insufficiently shielded cables, which means electrical interference can affect the 2D video signal as it travels between your 2D and 3D cards. This can result in somewhat distorted 2D images, particularly when displaying higher screen resolutions.

3D chipset: The 3D chipset is a special form of graphics processor which deals exclusively with the tasks involved in the generation of 3D visuals. Without a 3D chipset your PC must allocate these tasks to the CPU via software emulation.

APIs (Direct3D, Glide, OpenGL, Power VR SGL): APIs or Application Programming Interfaces are the conduit through which software sends data to be processed by your 3D hardware. You can think of them as direct lines of communication between your 3D games and your 3D hardware.

bilinear filtering: Eliminates 'blockiness' for a smoother 3D image.

letterboxed 3D, windowed 3D: These terms describe a 3D chipset's ability to process visuals in a separate window, while still running other applications in the background. This is particularly important for 3D graphic artists and designers who need to perform more than one task at a time. Most gamers, however, will find full-screen mode more than adequate.

pass-through card: These cards interface with your existing 2D graphics card via a feature connector. They only take over your system's display when running 3D software, the rest of the time they are totally transparent.

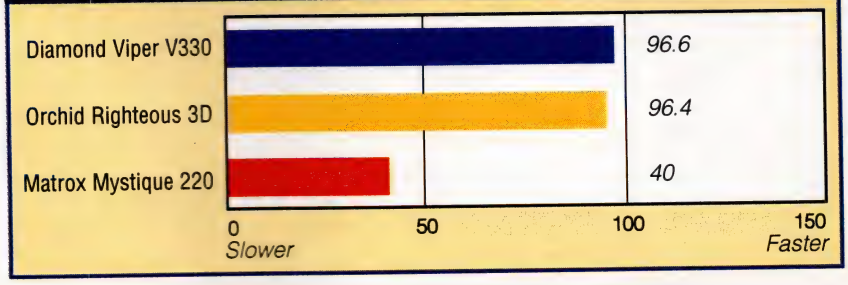
lighting and **reflection effects:** Special effect utilised by the Power VR PCX2 chipsets, which mean that real shadows can be cast from any object over any surface and are then updated every frame. Light also appears more realistic when reflected off shiny surfaces in a 3D scene.

MIP mapping: Eliminates the unsightly 'sparkle' on 3D textures.

texture and **Z-buffers:** Displays layered textures and 3D objects more efficiently.

by Julian Schoffel

3D WinBench 97 scores



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How the 3D cards compared

	Diamond Viper V330	Orchid Righteous 3D	Matrox Mystique 220
List price	$450	$300	$300
2D Win 95 performance	★★★★ ½	N/A	★★★ ½
Supported 3D features	★★★★ ½	★★★★ ½	★★
Software compatibility	★★★★	★★★★ ½	★★ ½
3D performance	★★★★ ½	★★★★ ½	★★ ½
Overall value	★★★★ ½	★★★★ ½	★★★

ing out, prices should start to come down and the discerning gamer may be able to find a bargain.

MGA 1164SG: At the heart of the new Matrox Mystique 220 lies the MGA 1164SG chipset. This card features faster 220MHz RAMDAC (Random Access Memory Digital-to-Analogue Conversion) allowing resolutions of up to 1600 by 1200. The Mystique also combines 2D/3D functionality and while the 2D component is extremely solid, some compromises have been made in terms of supported 3D features.

In order to attain high frame rates, Matrox has omitted 3D image enhancement features like bilinear filtering and MIP mapping. To put it simply, games running under a Mystique just don't look as good or run anywhere near as fast as those on a 3Dfx-based system.

Despite these weaknesses, the Mystique still represents good value to those of you who want average, but not inspiring, 3D performance and great 2D all in the one card.

Importantly, Matrox has been fairly pro-active in drumming up native software support for its 1164SG chipset and there are quite a few Mystique optimised titles out there. Matrox is also very committed to fine-tuning driver software.

But perhaps the most revealing, and somewhat ominous, development for would-be Mystique owners is the recent announcement of a new Matrox 3D card based around the Power VR PCX2 chipset.

New kids on the block

These are some of the newest entrants to the world of 3D acceleration. Only time will tell if they succeed or fail, but one thing is clear: 3Dfx is in for a serious fight if it wishes to retain its lofty position. The Riva 128 chipset has already thrown the cat amongst the pigeons by posting the fastest Direct3D score in our 3D WinBench test.

NVIDIA Riva 128: After the failure of the NV1, NVIDIA has made a huge comeback with its stunning new Riva 128 chipset.

The Riva 128 combines 2D/3D functionality and is the only chipset so far to outperform 3Dfx when running Direct3D. The wider 128-bit architecture translates into extra bandwidth and more speed. And while the Riva is limited to 4Mb of RAM, there is a special DMA (Direct Memory Access) mode, which allows textures to be stored and retrieved from the main memory.

The Riva 128 has a very rich 3D feature set with lightning fast 2D, and support for high resolutions of up to 16.7 million colours. Apart from Direct3D, the Riva will also run under the OpenGL API.

After testing the new Diamond Viper V330 (see review below), which is based around the Riva 128, we discovered it to be the fastest 3D chipset currently available when running Direct3D applications. However, 3Dfx still has the edge in terms of direct software support.

Rendition Verite V2100 and V2200: After having its thunder stolen by 3Dfx, Rendition crept away and designed two new 3D chipsets: the V2200 and V2100, with the latter being the less expensive version.

From all reports, these chipsets perform very strongly under Direct3D and OpenGL. Cards based around the V2000 family will be available with 4Mb and 8Mb of video RAM and feature support for windowed 3D. They will also be backward compatible with the V1000 although it is unlikely that many future native V2000 Rendition titles will be produced. However, this is largely irrelevant now Direct3D and OpenGL are growing in popularity amongst software developers.

With the extra memory on-board, gamers can expect high refresh rates and added performance. Being a 2D/3D combination, we would expect the V2000 chipsets to offer far superior performance to the woefully slow (in 2D) V1000.

In conclusion, it looks as though the Rendition V2000 and NVIDIA Riva 128 chipsets are shaping up as the leaders of the 3D pack, at least over the next six months or so.

Power VR PCX2: The PCX2 is the newest version of the Power VR chipset. The most appealing aspect of the PCX2 is its ability to run games at high resolutions. It also features windowed 3D and incorporates solid Direct3D support. While there have been some reports of slight image quality loss under Direct3D, the future involvement of Matrox will probably translate into better and more stable driver software for the Power VR platform.

Like its predecessor, the PCX2 can run native Power VR SGL titles, and cards based on this chipset don't suffer from 2D image degradation, like some of the 3Dfx-based products.

Unfortunately, the PCX2 is still processor dependent and 3D performance in slower machines will suffer as a result.

But if you do have a fast machine, then cards based around the PCX2 are an attractive proposition.

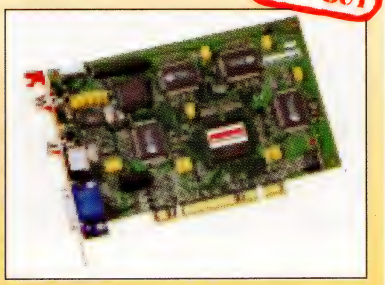
3D cards

Diamond Viper V330

Based around the new NVIDIA Riva 128 chipset, the Viper V330 is one of the fastest 3D products currently available. It was the first time another card out-gunned 3Dfx-based offerings in the 3D WinBench tests. Thankfully, this also translates into great real-world

Diamond Viper V330

PC User BEST BUY



The verdict: With its great 2D/3D performance, excellent display utilities, and nice array of bundled software the Viper V330 is very good value indeed. A definite *PC User* 'Best Buy'.

Direct3D performance, with the Viper running Moto Racer and MDK at a blazing pace!

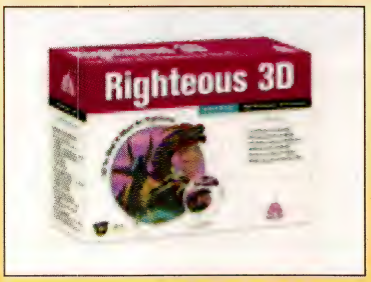
The Viper V330 also rips it up in the 2D stakes, offering lightning speed at high resolutions (up to 1600 by 1200) in up to 16.7 million colours. DOS performance is also very fast and there is support for multiple monitors and a TV-out socket.

While the card is limited to only 4Mb of 100MHz SGRAM (Synchronous Graphics RAM), the Riva can store and retrieve textures from the main memory. As usual Diamond has made installation of the card very easy and its In-Control display utilities are both intuitive and comprehensive. While the Viper V330 will eventually run under the OpenGL API, support was yet to be implemented at the time of writing.

Diamond Viper V330

From: Diamond Multimedia
List price: $450
On-board memory: 4Mb SGRAM
Minimum system requirements: P90, PCI 2.1 motherboard, 16Mb RAM
Operating system: Windows 95, NT 4.0/3.51 or DOS 5.0
Drivers: Windows 95, NT 4.0/3.51
Other software: IF-22, F-22 Raptor, Moto Racer, MDK, Asymetrix Web 3D, PhotoSuite, VR Creator, Diamond In-Control Tools 95, IE, BackWeb, MPEG player, WIRL

Orchid Righteous 3D



The verdict: There is no doubt that the Orchid Righteous 3D is still a very good 3D card and now prices have come down, it represents better value than ever.

Orchid Righteous 3D

The Righteous 3D from Orchid is a pass-through card with the sole purpose of speeding up 3D. It uses the 3Dfx chipset which translates into excellent Direct3D performance, direct support for OpenGL Quake and Hexen 2, along with a large array of other games optimised for its native Glide API. Being a 3D-only card, the Righteous can dedicate its 4Mb of EDO (Extended Data Out) DRAM (Dynamic Random Access Memory) to texture and Z-buffers.

Installation of the card is very easy and the well shielded pass-through cable means there is no danger of 2D video signal degradation. The card comes bundled with a good variety of software and the intuitive R3D display utility is a joy to use.

Orchid Righteous 3D

From: Orchid
List price: $300
On-board memory: 4Mb of EDO DRAM
Minimum system requirements: P90, PCI 2.0 motherboard, 8Mb RAM
Operating system: Windows 95 or DOS 6.0
Drivers: Windows 95
Other software: Mechwarrior 2, Descent 2, Actua Soccer, Fatal Racing, Scorched Planet (trial version), Hellbender (trial version), Monster Truck Madness (trial version), Righteous 3D demos, R3D control panel with gamma correction

Matrox Mystique 220

The verdict: The Mystique still represents quite good value to those who want average, but not inspiring 3D performance, along with solid 2D, all in the one card.

I continue to be amazed at how far ahead of the competition 3Dfx were when it released its Voodoo Graphics engine: the chipset has been out for over a year and the competition has only just started to catch up!

Matrox Mystique 220

The Mystique combines 2D/3D functionality and, while the 2D component is quite good, many compromises have been made in terms of supported 3D features.

In order to attain high frame rates, Matrox omitted 3D image enhancement features like bilinear filtering and MIP mapping. To put it simply, games running under a Mystique just don't look as good or run anywhere near as

Matrox Mystique 220

From: Matrox
List price: $300
On-board memory: 4Mb-8Mb of SGRAM
Minimum system requirements: P90, PCI 2.0 motherboard, 8Mb RAM
Operating system: Windows 95 or DOS 6.0
Drivers: Windows 95
Other software: Moto Racer, Toy Story, Matrox display utilities

Accelerated Graphics Port (AGP): How will it affect 3D acceleration?

One of the biggest problems associated with 3D accelerators are the limitations of the existing PCI bus. 3D cards need to pump loads of data through very narrow bandwidth. In response to this hardware-related architecture deficiency, Intel has been busy at work developing Accelerated Graphics Port (AGP).

AGP effectively widens the data highway and also allows AGP-specific 3D games to store and retrieve textures from the main system memory (similar to the technique already employed by the Riva 128 3D chipset on the Viper V330 card).

In simple terms, AGP will help existing games run a whole lot faster and future AGP optimised games should enjoy even greater speed increases. More textures processed faster along with larger polygon counts will mean more detailed, more realistic 3D gameworlds.

AGP motherboards are now available and should take first place on any 3D gamer's wish list. However, there are very few AGP 3D cards currently available, so it may be wise to wait a while. If you do buy a PC with AGP, make sure the AGP device lives in a slot and not on the motherboard itself. Because there can be only one AGP device in a computer, having an AGP chip soldered onto the motherboard itself will severely hamper future upgrades.

by Julian Schoffel

fast as those on 3Dfx or Riva 128-based systems.

At the heart of the new Matrox Mystique 220 lies the MGA 1164SG chipset. This card features faster 220MHz RAMDAC allowing resolutions of up to 1600 by 1200.

The card is easy to install and comes with excellent display utilities. Matrox has been fairly pro-active in drumming up native software support for its 1164SG chipset and there are quite a few Mystique optimised titles out there.

Still this doesn't quite compensate for the lack of OpenGL support and those of you who really want to play the GL versions of Quake 2 and Hexen 2 should probably go for a 3Dfx- or Riva-based card instead.

Gaming peripherals

CyberMan 2

I can still remember the original CyberMan controller: a friend gave it to me for a birthday present. Sadly, it proved to be nothing more than a vibrating mouse on a joystick-like podium, an illusion that made a lot of promises but fell far short of the mark in reality.

Now over the past three years, Logitech has put a lot of work into developing the next 3D controller in the series: the CyberMan 2 (C2). This rather odd looking unit will remind you of the strange alien control device Arnie used to terraform Mars at the end of the sci-fi flick *Total Recall*. The C2 uses a circular motion control handle on the right for controlling movement. On the left there are eight programmable buttons used to perform a variety of tasks depending on the game.

The motion control handle fits nicely into the palm of your hand and can be moved in every conceivable direction. The buttons themselves are conveniently situated with two near your thumb and the rest underlying under your fingers. The C2 is really designed to control 3D games like Quake or Hexen 2. I wouldn't try to use it for flight sims because the sensitivity of the motion control handle will probably have you spinning around in mid-air.

The C2 sits nicely on your desk, but also tends to take up a fair bit of room. It plugs straight into any 15-pin game port and can be programmed via Logitech's nifty Entertainment Software. The Entertainment Control Centre allows you to configure the C2's buttons any way you like, along with the sensitivity of the motion control handle itself. You can also allocate dead zones to movement patterns that aren't supported by some games. While this may seem a little complex at first, especially when you consider the vast amount of potential control variables at your disposal, the C2 also comes with an impressive array of ready-made configuration files for titles like Quake, Duke Nukem 3D, MDK and so on.

The CyberMan 2 certainly makes controlling games feel more natural even if it does look like a prop from an old *Dr Who* episode. Highly recommended. ❑

CyberMan 2

The verdict: While it will take most a little while to get the hang of, I can see the C2 rapidly becoming the 3D gaming aficionados' controller of choice.

CyberMan 2

Overall value: ★★★★

Minimum system requirements: 486DX2/66, 8Mb RAM, 15-pin game port, 4Mb of hard drive space
Operating system: Windows 95
Drivers: Windows 95
Other software: Descent 2, Logitech Entertainment Control Centre software
From: Logitech
List price: $169.95

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Christmas Gift Guide

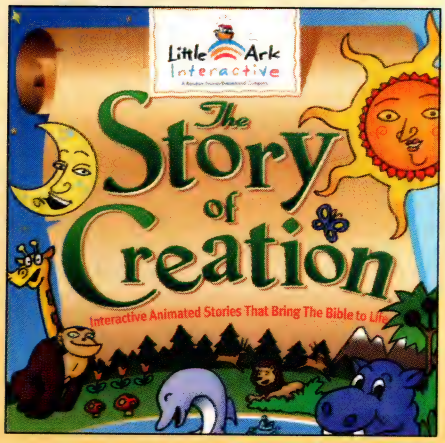
Reviews

Going Christmas shopping for a child? Why not buy software that's fun but educational? Here's a guide.

The full edition of *School PC* is having a well-earned break until the February 1998 issue of *PC User*, but we thought we'd finish the year with this special feature. The aim was to bring you a comprehensive selection of great software that will keep children amused — and still thinking — over the Christmas holidays.

We came up with much more — including some neat hardware devices and even some great software for parents! But first, let's start at the very beginning, in the true spirit of Christmas . . .

In the beginning



The Story of Creation is a child's narration of the beginning of time, featuring some wonderful illustrations.

Bible CDs

The Story of Creation

This title is a beautiful and faithful pictorial rendition of the beginning of creation — from the time before time, when God separated the earth from the heavens, the land from the waters, and filled the sky, the sea and the land with creatures. It is narrated by a child's voice of about the same age that the package is aiming at, 3-year-olds and up, and it is as simple as it is delightful.

The Story of Creation is a Little Ark Interactive title, part of the Broderbund stable, and it profits from the technology which, to most Broderbund titles, underscores the telling of the tale so cleverly, you hardly notice it's there.

Lovely touches to look out for include the fact that the Sun wears a sundial as a wristwatch, the eagle with "attitood", the snake dance and the cancanning jellyfish, not to mention the octopus who makes the most of his eight legs in the shadow figures show!

The title works on the read to me or let me play model, and on the three-year-old in the house who of course doesn't read yet; the technique is so successful, she happily navigates precisely by listening to what she's told rather than needing to read the words. It's a clever device from the Broderbund people, which has done much to promote computer competence among the very young.

Full marks all round.

Noah's Ark

Old Noah didn't know what he was letting himself in for when God told him to go about constructing a boat big enough to hold him, his family and two of every kind of animal in the world for 40 days. Who knows if it happened *just* like that. It certainly didn't happen exactly the way the Manaccom people tell it, but that seems hardly to matter because it's such fun.

The telling of the tale is done with rollicking humour and Australian accents, which, call me parochial if you like, makes a big difference. There's a raft of other good things to do as well, once you've finished having the story read, in full or simplified versions.

The Noah Series includes the stories of Joseph and his coat of many colours (entitled Joey and his Coat) and also Jonah and the Whale, (see below for a review). Author/publisher David Ellsworth displays a quiet faithfulness to the story he's telling. Highly recommended.

Daniel in the Lions' Den

Daniel is another in the Little Ark Interactive series, a spin-off company of the Broderbund publishing empire, so it has inherited some of the slickness of its parent company. It follows the familiar read to me or let me play model, with no added value such as jigsaws or puzzles, the kind of extra dimensions that we've become accustomed to in such titles. Now I know they probably mean well, and in these days of political correctness there are so many people to avoid offending, but I have to say I found this rendition of one

Bible stories on CD

Title	The Story of Creation	Noah's Ark	Jonah and the Whale	Joey and his Coat	Daniel in the Lions' Den	Charlton Heston's Voyage Through Bible
Age range	3 to 7 years	3+ years	3+ years	3+ years	3 to 7 years	10+ years
Skills	Bible story, reading, word recognition	Bible story, reading, word recognition computer skills	Bible story, reading, word recognition, computer skills	Bible story, reading, word recognition, computer skills	Reading, word recognition, computer skills	Bible studies
List price	$49.95	$39.95	$39.95	$39.95	$49.95	$69.95
System requirements	Win 3.1 or 95, or Mac	Win 3.1 or 95, or Mac	Win 3.1 or 95, or Mac	Win 3.1 or 95, or Mac	Win 3.1 or 95, or Mac	Win 3.1, 486, 8Mb RAM, 2x CD-ROM
Distributor	Dataflow www.dataflow.com.au	Manaccom (07) 3070 4900	Mannacom (07) 3070 4900	Manaccom (07) 3070 4900	Dataflow www.dataflow.com.au	Roadshow www.village.com
Publisher	Little Ark Interative	David Ellsworth	David Ellsworth	David Ellsworth	Little Ark Interative	Jones Digital Century
Relevance	★★★★	★★★★	★★★★	★★★★	★★★	★★★★
Friendliness	★★★★	★★★★★	★★★★★	★★★★★	★★★★	★★★★
Multimedia	★★★★	★★★★★	★★★★★	★★★★★	★★	★★★★½
Overall value	★★★★	★★★★	★★★★	★★★★	★★	★★★★½

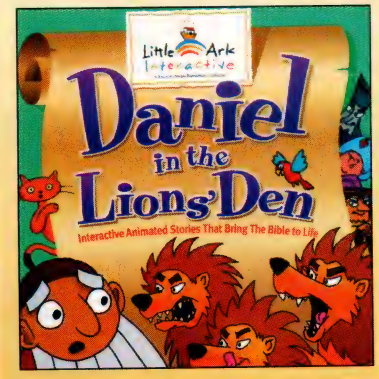
of the greatest testaments to faith rather sterile. Full marks to the characterisations of the nasty guys who plotted against Daniel, a proper rotten lot indeed, but why oh why call them the three not-so-wise men? It can only be confusing, since there's no relationship between this story and the three wise men's claim to fame, not to mention several hundred years' difference.

And please, now that we're quibbling, let's talk about accuracy. The way the Bible tells the story, the angel "stopped the lions' mouths". It doesn't mention anything about throwing them a big juicy steak.

There was such potential in the idea, it comes across as being a little pale for my taste. Safe, for sure, as safe as Daniel, you might say. The software has been sanctioned by an ecumenical council, according to the documentation, but in the process of not offending anybody, the spark seems to have disappeared.

The range of skills developed that are listed on the box include word recognition, increased vocabulary, reading comprehension and computer literacy. Sadly, it doesn't mention anything about developing an understanding of the word of God. At the very least guys, what would have been so hard about putting the actual Bible reference *somewhere* on the box or in the story?

Daniel's story

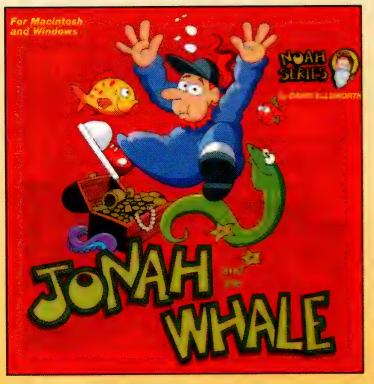


Daniel in the Lions' Den features a great baddie, but overall lacks in meaning.

Jonah and the Whale

Jonah is another of the Noah Series by David Ellsworth, home-grown and distributed by Brisbane-based Manaccom. It's a zapped into the present rendition of the famous story of the man who tried to run away from God's plan and was swallowed up by a whale, only to emerge from the belly of the whale to do the job that God had set him to do. The cartoon-style animation gels well with the extra details that have been added to the story, such as the fact that Jonah likes motorbikes and hot chilli ice-cream, and that his girlfriend's name is Peaches. But there's one fundamental difference between this and the Daniel story: right from the outset the text makes it clear that this is a story about a man and his relationship with God.

A whale of a time



You can groove along with Jonah in The Rib Room or turn the story into a series of puzzles.

It's also rollicking good fun, with some catchy original music and a few amusing twists on the story, namely that when he was swallowed up by the whale he descended into a jazz bar called The Rib Room, and then moved on to an inter-whale gym so he could get fit enough to go out and do God's bidding.

Short and sweet, the story doesn't allow for playing inside every frame while the story's going on, but you can revisit that option later, or turn each of the screens into jigsaw or slide puzzles.

Clever, funny in parts, and derivative enough of the real story to make you think about it, the only thing glaringly missing is again, the Bible reference, so

The old old story

Charlton Heston's Voyage Through The Bible is a fine introduction for children and adults to the New Testament.

that people who actually wanted to, could go and peruse the real thing.

by Helen Dancer

Charlton Heston's Voyage Through The Bible: The New Testament CD-ROM

This CD-ROM of the greatest story ever told is an easy yet comprehensive introduction for both children and adults to the New Testament.

Actor Charlton Heston is your host for this interactive journey that accesses the complete text of the King James Version of the gospels.

Highlights include Heston narrating many of the Bible's most spellbinding stories, such as the story of the nativity, video shot on location with 3D animation, and historical and geographical maps to place Christ's teaching's in context.

The chapters are well designed stories, for example, being directly linked to illustrations and photographs of the location, examples of art and music of the period, the text of the gospels the story is based on etc. This text is accompanied by a history of the particular book of the gospel from which the extract has been chosen.

You can take an interactive tour through ancient Jerusalem and visit the garden of Olives, the Second Temple and the chamber of the Last Supper.

Over 200 art works by artists, such as Da Vinci and Michelangelo, illustrate the journey. You can also hear music of the period: Gregorian and Byzantine chants, Bach, Mozart and Faure.

by Linda Bruce

Music

Piano Discovery System 3.0

For the simplest and most economical way, in terms of money and time, to learn piano, check out The Piano Discovery System.

You can buy software only or software and music keyboard as a set. The software only version comes with a plastic overlay you place on the computer keyboard, which essentially lets you learn the basics on a tiny piano.

Preferable is to plug a MIDI keyboard into the computer and view CD-ROM lessons on the monitor in front of you.

Piano Discovery System 3.0 contained a quality, touch-sensitive, 49-key MIDI piano with full-size keys, a cable to connect it to your soundcard, and three CD-ROMs.

The first CD-ROM transforms your computer keyboard into a mini-keyboard. The second contains a year's piano lessons pitched at a child's level, and the third contains a year's lessons for adults.

The adult version, assuming a steeper learning curve, progresses much faster than the children's, and offers songs more appealing to adults and more videos of hands playing the tunes for you to imitate.

Year 1 contains over 900 mini lessons, 70 video demonstrations and 60 songs, and the option of printing sheet music or downloading songs from the Internet. Ideally, kids still need an adult to sit with them and supervise lessons.

From Discovery Island you access four musical activities. First try carefully structured piano lessons in the Discovery Schoolhouse. If you follow these, the music teachers will take you automatically to the appropriate section of the arcade, practice bungalow and performance hall.

Technically the program preferred a SoundBlaster card to a SoundBlaster compatible one. Even so, though I'm a teacher and I play music, I think Piano Discovery System is the easiest way to teach children keyboard.

by Linda Bruce

Piano Discovery System 3.0

Overall value: ★★★★★

Age: 6 years to adult
Skills: Piano
System requirements: Win 3.1, 486/66MHz, 8Mb RAM, 35Mb hard drive, SVGA, SoundBlaster or compatible, 16-bit, 2x CD-ROM
From: Jump! Music http://www.jumpmusic.com/
Distributor: Moore Music (03) 9419 0344; www.mooremusic.com.au
List price: Software with keyboard $US219.99 plus shipping; software only $US49.95

Learn piano electronically

The Piano Discovery System is one of the most efficient and economical programs for learning piano.

Adventures in Music with the Recorder

This great mix of computer technology and traditional teaching methods has much appeal for kids of seven and upwards. It features music guide Rick Order with his various expert friends from around the world in a fascinating series of musical and geo-

Adventures in Music with the Recorder

Overall value: ★★★★

Age: 7+ years
Skills: Music theory, performance and composition; geography
System requirements: 486DX2/66, 8Mb RAM, Windows 3.1 or 95, Sound Blaster compatible, 2x CD-ROM, SVGA 256-colour graphics
Publisher/Distributor: Ubi Soft Entertainment (02) 9362 1414; http://www.ubisoft.com
List price: $69.95

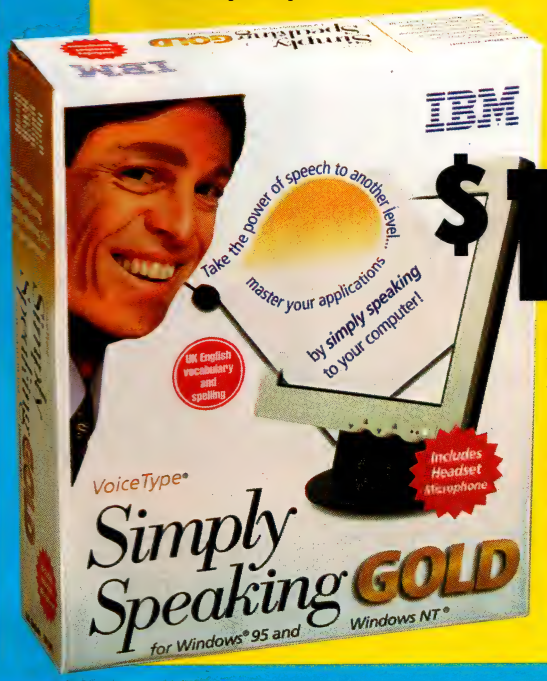
Wouldn't You Rather *Talk* Than Type?

IBM Simply Speaking VoiceType. Fun, fast, easy to use and a great productivity booster.

$99

How often have you wished your computer could understand what you were saying? With IBM Simply Speaking VoiceType, it can. Now you can simply sit in front of your computer and tell it what you'd like typed via an included headset and microphone.

Correspondence, faxes, e-mail. reports - VoiceType produces them all with 90-95% accuracy. And it learns as it goes, steadily increasing in accuracy as you use it.



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IBM Simply Speaking VoiceType Gold. The high-function business version of the award winning IBM VoiceType. Profession-specific models available.

Harvey Norman

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Freight extra in Western Australia and Australian country areas and price will differ in New Zealand. Prices shown are in Australian dollars. Stock may not be displayed in all stores.

Of all the ways the BJC-7000 revolutionises printing, the most dramatic is

the P-POP difference.

"Absolutely breathtaking" photographic printing. "Capabilities never before seen..." Then there is the big difference! P-POP.

"CANON PUSHES STATE OF THE ART..."[1]

P-POP is Plain Paper Optimised Printing. As the "printer industry bible" (Hard Copy Observer) says, it "...pushes state of the art...",[1] to completely change plain paper print quality.

An all new approach. P-POP bonds an invisible ink optimiser to the paper before inks are applied. The inks, in turn, bond to the optimiser.

This dramatically reduces ink diffusion. Text and lines are better defined, colours are more vibrant and tones are sharper because the inks are not mixed in an unwanted way.

100% water resistant. P-POP also extends document usability.

Colours and blacks are far less likely to fade. And print-outs become water fast.

Multiple ink systems, 1200 dpi. The BJC®-7000 can use either of two colour systems with the black and ink optimiser cartridge. One system uses conventional CMY inks[2], and prints with resolution up to 1200 dpi, so that even photos can be reproduced with extraordinary quality on plain paper with conventional inks using P-POP.

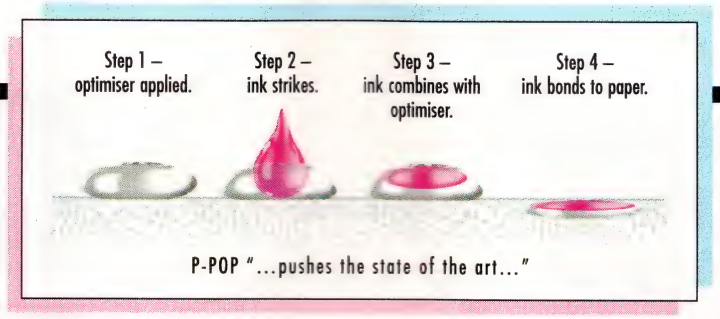
"ABSOLUTELY BREATHTAKING" PHOTOGRAPHIC PRINTING.

The other system is second generation PhotoRealism. As Hard Copy Observer says, "...(it) is absolutely breathtaking...".[1]

The first "7-colour process". The secret is the PhotoRealism colour ink cartridge, included as standard. It uses a seven-ink process, conventional CMY, new lower density CMY inks, plus black. Also, thanks to P-POP it is the first low-density ink system that can be used on plain paper.

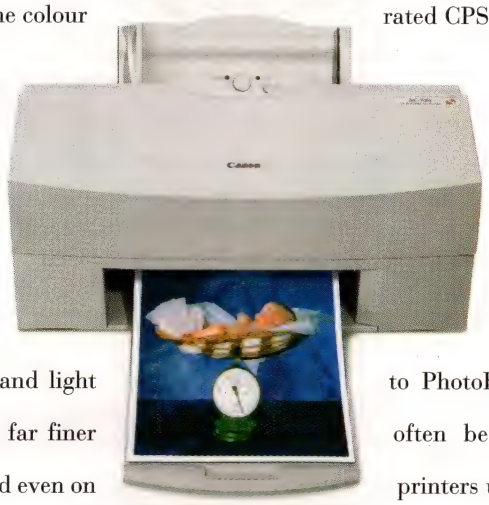
1. U.S. Hard Copy Observer, August 1997. 2. Optional BC-61 CMY ink cartridge. 3. Speed is an estimate and, for comparability, is based on a competitive manufacturer's colour retail price, including tax. Canon Australia Pty Ltd ACN 005 002 951. Canon and the Canon logo are registered trademarks and PhotoRealism and P-POP are trademarks

BJC-7000 – $729 RRP



A new gold standard. PhotoRealism is not a self-styled "photo-quality mode", but a unique Canon invention that is fast becoming the gold standard of the industry, delivering near silver halide photographic quality.

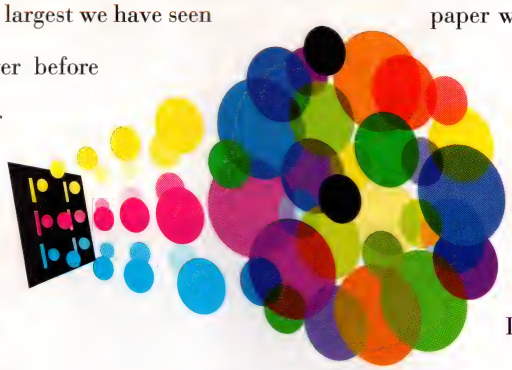
9000% more colour! The inks can be combined and layered, producing up to nine saturation levels per colour, per pixel. This results in up to 90 times the colour combinations of traditional CMYK inks, and considerably better "process blacks and darks".



Almost invisible pixels. This, combined with the Canon Colour Image Processing System (CCIPS), completely changes the way both dark and light half-tones are reproduced. Colours have far finer gradations without banding and lines. And even on hard-to-produce light shades such as skin tones and off-whites "...individual pixels in the image are barely visible".[1]

"(CARTRIDGE) CAPABILITIES NEVER BEFORE SEEN..."[1]

Then, the cartridges "...are the largest we have seen ...(offering) new capabilities never before seen in a desktop inkjet printer ...(with more ink nozzles) than any other cartridge in the industry".[1]



Second generation PhotoRealism produces 9000% more colour combinations for "absolutely breathtaking" results.

50% smaller nozzles. The nozzles are approximately half the diameter of previous models, so the ink drops are far finer. They are then fired at speeds close to 10,000 drops per second, using up to 1088 ink nozzles.

Blacks 80% faster. There are 304 nozzles for black alone. This generates speeds up to 720 characters per second with bi-directional printing, and up to four text lines per head pass. Putting this in perspective, this is 80% more than the rated CPS speed of the Epson 800!

480 colour nozzles. There are 480 nozzles dedicated to colour in the PhotoRealism cartridge. (This is 150% more nozzles than the Epson 800.)

The BJC-7000 achieves colour speeds as high as 4 ppm.[3] And, thanks to PhotoRealism, true photographic quality can often be delivered at speeds far faster than printers using only conventional inks at high dpi.

Lower costs, better paper handling. Better plain paper use can obviously lower operating costs. There is also new, full-bleed A4 printing and the ability to print full card stock at paper weights up to 550 g/m2 (0.8mm).

Canon Customer Care. Finally, the BJC-7000 features a one-year warranty, upgradeable to three years for minimal cost, and is backed by our Customer Care hot-line support. Drivers are available for DOS and Windows 3.1x/95.

If you would like to learn more, call us on 1 800 021 167.

text test. Actual speed will vary based on system and other factors. Canon estimates maximum colour graphic performance at 3.5ppm. Price as shown is recommended
of Canon Inc. All other trademarks are the property of their respective owners.
CS/4372

Canon

Pocket entertainers

Hand-held games are ideal for travelling and waiting in line.

graphical adventures where the young student learns to play the good quality Yamaha recorder included in the package.

Each friend introduces different concepts of harmony, rhythm and music theory against beautiful local backgrounds of Tibet, Mexico, Africa and France, offering nice tunes to play and learn as well as musical games to play.

There are 60 full lessons and 40 tunes built-in, and the interaction to learn them are a delight. Music displays on a stave whilst it plays through your soundcard, and an on-screen recorder shows correct finger placement. It's all "point and click", takes players to a good level of proficiency, an Internet button lets you trade compositions with others, and there's a music printout feature, too.

by Eric Holroyd

Hand-held games

Battleship

The beauty of hand-held games is that they fit snugly into teenage pockets, and they are great for whiling away time during holiday travel or schoolyard relaxation.

All the games sport stylish shapes and colours and they pit one player against the built-in computer. The games also come with batteries and an automatic shut-off feature.

In Battleship (yes, the same as the classic), you place your carrier, battleship, destroyer, submarine and patrol boat around your playing field, while the computer does the same. You don't know where your opponent has placed their boats so you systematically use grid coordinates to ascertain where they are and blow them out of the water.

When you find them, the larger the ship, the more hits it requires to destroy it. A battleship takes four hits to sink. The aim is to sink all their fleet before they sink you. You can choose three different games and three skill levels.

Hangman

Electronic hand-held Hangman is the original word-guessing game. It features three skill levels (from eight-year-olds to adult), number of letters in the word and 10,000 words over 10 categories, such as animals, music and leisure.

Connect Four

Connect Four as an electronic hand-held game is just as challenging as the original! Your aim is to place four checkers in a row across, down or diagonally while preventing the computer to do the same. The strategy is to drop each checker with a press of the button to build and block strategically.

Connect Four has a hint button, whereas the other hand-held games do not. Though easy to learn and fast, this game requires advanced thinking and planning. Each of the three skill levels offer two games and automatic scoring. Most suitable for players over 10 years old.

Battleship
Overall value: ★★★
Age: 10+ years
From: Hasbro Australia (02) 9874 0999
List price: $29.95

Hangman
Overall value: ★★★ ½
Age: 6+ years
From: Hasbro Australia (02) 9874 0999
List price: $29.95

Connect Four
Overall value: ★★★★
Age: 10+ years
From: Hasbro Australia (02) 9874 0999
List price: $29.95

Yahtzee
Overall value: ★★★★ ½
Age: 12+ years
From: Hasbro Australia (02) 9874 0999
List price: $29.95

Yahtzee

Fast, fun and easy to play, in this virtual dice game you roll up to three times to score straights, and three, four and five of a kind to score Yahtzee! You earn bonus points for aces, sixes and Yahtzees and full house — all automatically added to your score. Stylish presentation.

by Linda Bruce

Chess tutors

Surely the ultimate board game is one that can talk to you and coach you to victory? These intelligent chess coaches do just that! Endorsed by the World Chess Champion Gary Kasparov, they are a gymnasium for your brain, and whether you are a complete novice or budding grand master, you'll find a starting level to suit your ability.

Other intelligent computerised games great for Christmas and available from Computerplay include Bridge, Checkers and Backgammon.

Kasparov Portable Talking Coach

Great to take whilst travelling over the Christmas holidays, this nifty portable chess unit teaches and guides you as you play. You choose from several learning modes: Teach Games helps you learn the basics — perfect for beginners and children, and Eight Voice Coach levels guide you and warn you when your pieces are threatened.

New Super Economy mode lowers costs in colour and B&W to print

page after page after...

For just $269 RRP, the new BJC®-210SP delivers both Photo Mode quality colour, and black & white at a speed comparable to a personal laser. It also helps lower operating costs in two ways.

Use 75% less ink. A new Super Economy mode has been developed.

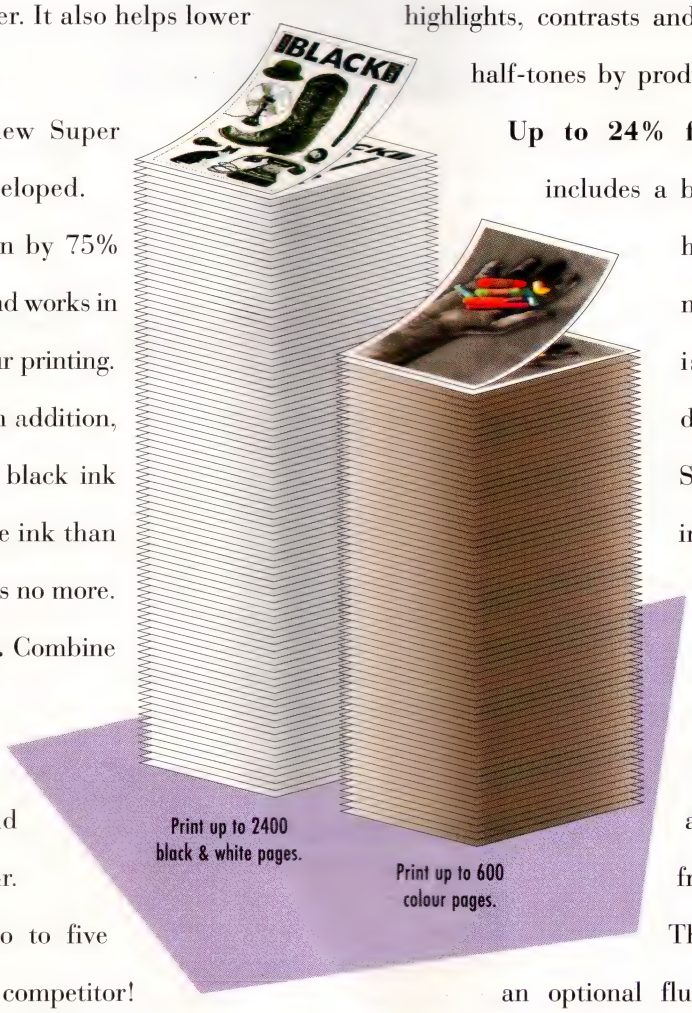
It reduces ink consumption by 75% compared to Standard mode, and works in both black and white and colour printing.

Bigger black cartridge. In addition, there's the new high capacity black ink cartridge that holds 20% more ink than our previous cartridge, yet costs no more.

Up to 5 times the output. Combine these two features and the new BJC-210SP can print up to 2400 pages in black and white, and up to 600 in colour.

That's anywhere from two to five times the output of any direct competitor!

Photo Mode quality printing. Using the colour cartridge, included as standard, the BJC-210SP offers a choice of three high quality print modes – Normal, Fine and Photo.



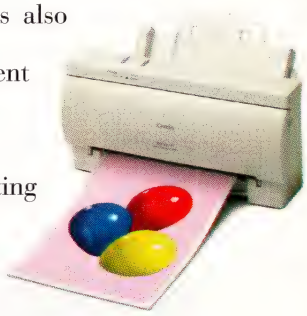
Advanced half-tones. Photo mode uses the Canon Colour Image Processing System (CCIPS) to emphasise highlights, contrasts and shadows and visibly improve half-tones by producing a richer process black.

Up to 24% faster. The BJC-210SP also includes a black cartridge as standard. It has up to twice as many print nozzles as direct competitors, is up to 24% faster[1] and delivers resolution up to 720 dpi. Speed and quality are equally impressive in colour.

Canon Customer Care. All Canon printers feature a one-year warranty, upgradeable to three years for minimal cost, and are backed by hot-line support from our Customer Care staff.

There is also an optional fluorescent ink cartridge for high impact.

For more information on cutting printing costs call 1 800 021 167.



1. B&W speeds based on manufacturer's actual characters per second ratings. Price as shown is the recommended retail price, including tax. Canon Australia Pty Ltd ACN 005 002 951. Canon, the Canon logo and BJC are registered trademarks of Canon Inc. All other trademarks are the property of their respective owners. CS/4768

BJC-210SP – $269 RRP

Canon

Professional players

Kasparov President — the ultimate strategy to improve your chess game.

The unit suggests moves if you need help and displays the moves it is considering. The extended playing range of 256-level settings helps you progress from beginner to club level.

Other top features include Position Evaluation, which tells you the position of your pieces at any time, and the ability to take back a half-move. Don't worry if your game is interrupted — Portable Talking Coach stores your unfinished game in its memory for up to two years!

Pegs hold pieces onto the board, and a neat lid fits snugly over the unit to keep the game in place while you walk. Though the American accent is sometimes blurred, overall this coach is terrific.

Kasparov Talking Coach

Similar to the portable version, Kasparov Talking Coach, designed for a tabletop, is a little larger, beautifully designed set that remains easy to carry. The larger pieces are easier to play with, and though this version offers four coach levels as compared to eight in Kasparov Portable Talking Coach in its Extended Playing Range, it presents 384 level settings versus 256.

Though pieces are not pegged to the board, the unit is essentially portable with pieces tightly stored within the set. This unit keeps unfinished games in its memory for 18 months and you can also run it with an adaptor.

Kasparov Portable Talking Coach

Overall value: ★★★★ ½
Age: 10+ years
From: Leading retail outlets
Distributor: Computerplay (03) 9894 2483
List price: $169.95

Kasparov Talking Coach

Overall value: ★★★★ ½
Age: 10+ years
From: Leading retail outlets
Distributor: Computerplay (03) 9894 2483
List price: $199.95

Kasparov President — Wooden Chess Board

Overall value: ★★★★ ½
Age: 13+ years
From: Leading retail outlets
Distributor: Computerplay (03) 9894 2483
List price: $849

Kasparov President — Wooden Chess Board

This heirloom set for professional players combines luxury and strength in the pleasure of a wooden chessboard with 6cm pieces. It's powerful with a 32Kb program on a high-speed RISC-style processor, and 64 playing levels including Casual, Blitz, Tournament, Fun and Problem-solving.

The LCD displays a time for both sides, problem solving hints, draw status and more.

by Linda Bruce

Electronic pets

Electronic pets come in many flavours: DNA Humans and Smarty Time, Puppy Love, Giga Pets, and My Baby's to mention a few, plus the one that started the craze — Tamagotchis. Though the graphics are blocky and whether you accept the translation of "Tama" as being Japanese for "small ignorant person", and Gotchi as "taking money from" electronic pets are the 'in thing' for 10- to 14-year-olds.

Babies, dinosaurs, dogs, cats, birds, aliens, chickens, turtles, critters, teenagers and grannies, the aim of the game is the same — to keep them alive.

My Baby is typical of the genre. First you reset and a smiling doctor's face appears on screen. Two minutes later there is a beep and either a boy or girl baby appears. You can tell the difference because boys have no hair. Then you name your baby by inputting letters and you're away.

Your task is to keep them alive by tending to them. If all is well, every 24 hours they will age three months. When the baby needs something a beeper sounds. Alternatively you can turn the sound off and simply check the index. This tells you whether he needs to be disciplined, if he's hungry or dirty and how happy he is.

If he is unhappy you play with him, if he's dirty you bathe him and when he's hungry you feed him (ice-cream or bottle when born, noodles when he's over two years old). If he needs to be disciplined you smack him as much as he needs — a strategy not recommended in real life.

"You have to mind them every day," explains 11-year-old Jim. "If you miss one day because you've misplaced it, and you find it next morning it will probably be dead. About every 10 minutes it wants something, unless you put it to sleep for the night. To do this you can click on the sun and moon icon and turn the lights off. Sometimes it just stays awake and beeps every hour or so. This is very tiring. But when he sleeps he rests for seven hours."

Available from toy stores and leading retail outlets prices range from $13 up to $29.

by Linda Bruce

Electronic diary

My Secret Diary

One of the most important things for the young is keeping special stuff away from others, especially brothers and sisters. Young girls can now do just that with a secret personal diary on the family computer, and no-one else can read it thanks to a special user-set password. Others can keep their own diaries too, simply by setting their own password.

Brilliant colour, PhotoRealism and an extra large print head for

faster blacks.

When it comes to versatility, the BJC®-4200 is ahead of its class.

Four printing systems. It accepts a choice of four different cartridge-based printing systems, designed to tailor your output to your printing needs. Two are included in the box as standard.

Photo quality CMYK. The first standard system is four-colour process printing, with driver settings for Economy, Text and Photo. The Canon Colour Image Processing System (CCIPS), and resolution up to 720 dpi, gives you outstanding half-tones by combining pure and process blacks.

Blacks at twice the speed. The other standard system, specifically for black & white correspondence, is an unusual feature.

It is a dedicated, extra large black ink cartridge with 128 print nozzles capable of printing two text lines at speeds up to 510 characters per second.

Don't be confused. Many manufacturers make all sorts of claims about pages per minute. But, in reality, using their own characters per second ratings, you'll find that the BJC-4200 can be more than twice as fast! (Also see output chart.)

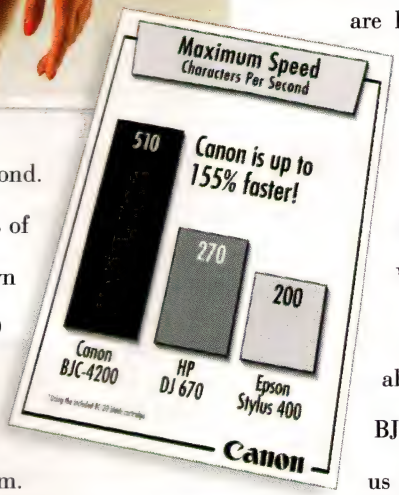
Canon's exclusive PhotoRealism. Third, there is Canon's unique PhotoRealism. This option is more than just a claim, it is fast becoming the photo quality printing gold standard.

500% more colour combinations. Special low-density inks can vary the amount of saturation per pixel so that a single dot could have 0%, 33%, 67% or 100%. This produces up to five times as many colour combinations as conventional CMYK inks.

Virtually no pixelisation. The result is better half-tones and more subtle colour gradations, with almost no visible grain and dots, even in areas of low colour density.

Canon Customer Care. All Canon printers feature a one-year warranty, upgradeable to three years for minimal cost, and are backed by Customer Care hot-line support. Finally, our fourth ink system, Fluorescent ink, is also an option, and drivers are available for DOS, Windows 3.1x/95 and Windows NT.

If you would like to learn more about tailoring the highly versatile BJC-4200 to your printing needs call us on 1 800 021 167.



Price as shown is the recommended retail price, including tax. Canon Australia Pty Ltd ACN 005 002 951. Canon, the Canon logo and BJC are registered trademarks and PhotoRealism is a trademark of Canon Inc. All other trademarks are the property of their respective owners. Competitive print speeds are the actual published character per second ratings of the respective manufacturers.

CS/4371

BJC-4200 – $429 RRP

Canon

PC protected from toddlers

Comfy Keyboard fosters toddler's enthusiasm while protecting your computer.

My Secret Diary is a set of programs built around the diary itself, and there's a clock, calculator, calendar, address book and other useful things to help organise a busy young life. To make it even more personal there's a paintbox complete with stamp pad to design your very own diary cover and page borders. You also can use PCX pictures from other places to decorate your various pages.

The point and click system is easy to use and there's online Help, some nicely spoken voice prompts ("Are you sure you want to quit?") plus a MIDI music player with lots of music files to play whilst working on your diary.

by Eric Holroyd

My Secret Diary

Overall value: ★★★★

Age: 6-12 years
Skills: Personal development and organisation
System requirements: 486DX, 8Mb RAM, Windows 3.1 or 95, soundcard, CD drive, printer optional
Distributor/Publisher: Manaccom (07) 3870-4900; http://www.manac.com.au
List price: $39.95

Comfy Keyboard

Overall value: ★★★ ½

Age: 1-3 years
Skills: Computer, fun, language
System requirements: 386DX/33MHz, DOS 5.0, VGA, 4Mb RAM, double-speed CD-ROM drive, Sound Blaster
Distributor: Morse Corporation (02) 9796 2225
Publisher: Comfy Interactive Movies
List price: $139

Just for fun

Comfy Keyboard

For those of us who wish to encourage our toddler's enthusiasm to use a computer while at the same time safeguarding our hardware, Comfy Keyboard is a top place to start. Simple to set up, it plugs easily into the printer port and requires no drivers.

Similar to a Play Centre, the Comfy Keyboard sports a red plastic telephone on the left and beside it a row of five red buttons displaying animal faces. Five blue music buttons cluster in the centre depicting a drum, trumpet, piano, recorder and miscellaneous notes. On top is a large green rolling bar, on the bottom six more coloured buttons and on the right three large options depicting the sun, rain and moon.

The Comfy Keyboard includes two CD-ROMs. The first level, Comfy Touch-n-See, aims to teach one- to two-year-olds the effects of their actions, plus introduce colours, shapes, instruments and weather.

From here kids progress to the second level, Comfy Land, for two- to six-year-olds. Here you are invited to Feely the Elephant's birthday party with her friends Comfy the child, Jumpy the dog, Buddy the bear, and Snaily the smart snail. These characters enact stories on screen, ask players to make it rain, or call somebody on the telephone. For extra value the manual suggests discussions you may like to have with your child about the scene just played.

At the introductory play level, 13-month-olds have no difficulty in playing and learning alone. Upper levels cater well for three-year-olds' intelligence. Once children have gained mouse control (usually around three-and-a-half to four years old) and learned to use an adult keyboard gently, they can graduate to other early learning games. As an introduction to computers, however, and for parent peace of mind, Comfy Keyboard is great value.

by Linda Bruce

Just Grandma and Me

Overall value: ★★★

System requirements: Windows 3.1 or 95, or Mac, PowerMac
From: Dataflow (02) 9417 9700; http://www.dataflow.com.au
List price: $59.95

The Berenstain Collection

Overall value: ★★★

System requirements: Windows 3.1 or 95, or Mac, PowerMac
From: Dataflow (02) 9417 9700; http://www.dataflow.com.au
List price: $69.95

Just Grandma and Me

The Berenstain Collection

Broderbund has re-released some of its most favoured titles, Just Grandma and Me and two Berenstain Bears titles in The Berenstain Collection.

Just Grandma and Me features the same familiar story with more things to do on every page. Make your own sandcastle at the beach, or explore the now familiar story in French, German or Spanish. The Berenstain Collection features In the Dark and Get In A Fight in the same box — two bears for the price of one. These well loved tales teach children about resolving their differences with their siblings and taking care of each other.

The Cat In The Hat

Probably the best loved children's book of all time, *The Cat In The Hat*, by Dr Seuss, has been reshaped and rendered on disc. It's a joy to play through or be read to, and the original genius has been complemented by some great multimedia techniques. When the cat is balancing all sorts of things, you can make them fall, and then put the stack back together again. Use the pen to draw on the blackboard and put the portrait back together again, or just follow the story through and click on each page to make fun things happen.

The other half of your portable office, because it can be both

a printer and scanner.

Read the features and you'll swear the BJC®-80 would use half your desktop, not half your briefcase.

Breakthrough colour technology. It's hard to believe that colour this good can come from a printer so small.

But, that's what you get with a patented new process called Drop Modulation Technology.™

Two ink drop sizes. It produces dual drop sizes in all four CMYK inks, in resolutions up to 720 dpi. The result is smoother colour gradations and less grain on all paper types.

High speed blacks. In seconds you can switch to a special, black only cartridge with 128 print nozzles. It offers laser-like speed and text smoothing for highly finished correspondence.

Send a fax, scan in colour. Next there's the optional colour scanner head. You can simply substitute it for the printer head. There is a high-speed mode for faxing* and a high definition mode. The latter is ideal for colour graphics and OCR, and reads up to 360 dpi, 128 monochrome levels for OCR, and 64 colour levels for RGB.

IrDA for wireless operation. The BJC-80 accepts an optional battery pack as well as standard power. And to make your life easier, it comes with a Windows 95 infrared IrDA compatible port for cable-less communication.

Better Internet images. The BJC-80 even includes an Image Optimisation feature that reduces the jagged images and faded colours common to Internet images, and works with a variety of graphic applications.

Canon Customer Care. The BJC-80 features a one-year warranty, upgradeable to three years for minimal cost, and is backed by Customer Care hot-line support. Drivers are available for both Windows 3.1x/95 and Windows NT.

To learn more about the other half of your portable office, call us on 1 800 021 167.

* Fax function requires appropriate software and Windows 95. Price as shown is the recommended retail price, including tax. Canon Australia Pty Ltd ACN 005 002 951. Canon, the Canon logo and BJC are registered trademarks and Drop Modulation Technology is a trademark of Canon Inc. All other trademarks are the property of their respective owners. CS/4446

BJC-80 – $499 RRP

Canon

The Cat In The Hat

Overall value: ★★★★ ½

System requirements: Multimedia PC with speakers, Mac or PowerMac

From: Dataflow: (02) 9417 9700; http://www.dataflow.com.au

List price: $69.95

Warning to grown-ups. Don't even try and make believe you are doing this for your kids. No-one will believe you!

Madeleine Classroom Companion Preschool and Kindergarten

Madeleine Classroom Companion 1st and 2nd Grade

As seen on TV, the petite Madeleine and her school friends are also new to disc. These packages are both really designed for school use: the first two-CD set is aimed at preschoolers, and the second takes children through first and second class learning activities. But we couldn't resist putting them in as great examples of things to do in the holidays, because of the familiarity of the character and because they are choc-full of things to do, such as making Madeleine stickers, colouring in, songs to learn and problems to solve. They are both also excellent resources for reinforcing number, letter, shape and colour recognition and for encouraging critical thinking with the use of fun puzzles.

The World of Whales

Described as an 'interactive voyage of pure wonder', this CD will delight any child who dragged their parents along to see any of the *Free Willy* movies. I hasten to add that there's no relationship between the two, except a thematic one. Both explore the world of whales and reinforce valuable environmental awareness messages. With The World of Whales you can also conduct a debate between whalers and environmentalists and hear both sides of the story, go on a scientific expedition at your own pace and learn not only about whales but about the science of studying them.

For the serious child, this one is well worth a look.

Madeleine Classroom Companion Preschool and Kindergarten

Overall value: ★★★

System requirements: Windows 3.1 or 95, or Mac or PowerMac

From: Electronic Arts (02) 9955 7744

List price: $49.95

Madeleine Classroom Companion 1st and 2nd Grade

Overall value: ★★★

System requirements: Windows 3.1 or 95, or Mac or PowerMac

From: Electronic Arts (02) 9955 7744

List price: $49.95

Hercules Animated StoryBook & Hercules Print Studio

If your children have seen the movie *Hercules*, here's two ways of extending the experience. The Hercules Animated StoryBook allows them to play along inside the story and play a part in defeating the hydra, or making scary monsters of their own!

Hercules Print Studio will guarantee that your Christmas cards, stickers, party invitations and postcards all have a Hercules theme (err, maybe keep this one until the *end* of the holidays!) This is an easy to use, street smart extension of the brand by Disney, but bear in mind that for this to be a fun experience for the kids, your home computer setup needs to include a colour printer.

The Animated StoryBook is cross platform, and will work on both Macs and PCs but the Print Studio is for Windows PCs only.

ClickArt Celebrations and Holidays

This package is definitely designed for older children who just love making things. It offers thousands of holiday images that can be turned into cards, placemats, posters, wrapping etc. From classical to modern images, the software ranges from Valentine's Day to Halloween, and of course, Christmas.

The ClickArt can be accessed from any of the following applications: Printshop Deluxe, Microsoft Word, Adobe Pagemaker, Excel for Windows, Microsoft PowerPoint, WordPerfect for Windows and QuarkXPress, but it's important to understand that your computer must already have one of these installed to be able to use the software.

As with the Hercules Print Studio too, to make the most of it, you really need a colour printer so the kids (or their parents) can print out their beautiful creations.

And sorry Mac users, this one's for Windows PCs only.

by Helen Dancer

The World of Whales

Overall value: ★★★

System requirements: Multimedia PC running Windows 95

From: Scholastic New Media (02) 4328 3555

List price: $49.95

Hercules Animated StoryBook & Hercules Print Studio

Overall value: ★★ ½

System requirements: 486/66MHz, Win 95 or 3.1 or later, 8Mb RAM, 30Mb free HDD, 2x CD-ROM, 256 colour VESA PCI or similar, 8-bit soundcard, MS mouse. Mac — 68040 or faster, System 7.1 or later, 8Mb RAM, 30Mb free HDD, (PowerMac 16Mb free), 256 video display, 2x CD-ROM

From: Buena Vista Home Entertainment (03) 9823 7800

List price: Hercules Animated StoryBook $69.95; Hercules Print Studio $39.95

ClickArt Celebrations and Holidays

Overall value: ★★★ ½

System requirements: Multimedia PC, speakers

From: Dataflow (02) 9417 9700; http://www.dataflow.com

List price: $59.95

American Greetings CreataCard Gold 2

A fantastic solution for do-it-yourself Christmas cards, birthday cards, announcements, invitations, signs, gift tags and more, you can let your imagination run wild with CreataCard Gold 2,

Canon's BJC-240 is the only printer to offer PhotoRealism. For just $349.

Although many printers claim "photo quality printing", there is a big difference between "photo quality", and PhotoRealism.

Exclusive to Canon. PhotoRealism is an exclusive Canon invention. And it comes as standard on the BJC®-240. But no other printer in its class offers the equivalent, even as an option.

The photo printing gold standard. PhotoRealism is not just a description. It is a special printing process that is rapidly becoming the gold standard because it is completely different from printers using conventional inks with only "two values" – either "on" or "off".

400% more colours. PhotoRealism uses low-density inks that let you vary the amount of saturation of cyan, for example, from 0% to 33% to 67% to 100%. These different densities can then be layered to produce a far wider dynamic colour range with four times as many colours as conventional inks.

Smoother colours. The process can improve all colour printing because colours can be richer, with better contrasts and smoother gradations. But the big difference is on photographs. Half-tones can be better defined, and visible grain almost completely eliminated, even in areas of low colour density.

Multiple colour choices. The BJC-240 comes with two different colour ink cartridges as standard – PhotoRealism inks and conventional ink for outstanding operating economy. It also comes with 60 sheets of high-resolution paper for photographic printing, and accepts optional cartridges for pure black and fluorescent ink for high impact. Drivers are available for DOS, Windows® 3.1x/95 and Windows NT.

PhotoRealism is not just a description, it is Canon's unique photo printing process.

Canon Customer Care. The BJC-240 features a one-year warranty, upgradeable to three years for minimal cost, and is backed by Customer Care hot-line support.

If you would like to learn more about the differences between true PhotoRealism and conventional photo quality, call us on 1 800 021 167.

Photo Realism™

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BJC-240 – $349 RRP

Canon

Hours of fun

American Greetings CreataCard Gold 2 sports a fun and easy-to-use interface.

or use one of over 10,000 designs included with the package.

Featuring an extremely easy to use and great looking interface, you begin in CreataCard Gold 2's printshop and click on what you want to create — invitations, cards, stationery, gift tags, signs, business cards, labels, envelopes, awards and certificates.

If, perhaps, you're keen to design your own work of art, you can commence directly to Creative Workshop, where you put your own original ideas to work, or cut and paste in clip art, artwork, choose fonts, or load scanned photos or graphics you may already have.

The text on the 1000 greeting cards provided with this package can be altered. However, what you see is what you get with graphics and colours.

You can add to the already substantial array of card ideas by clicking on Buy More Cards in the printshop. This will take you directly to Micrografx's Internet store, the CreataCard Web site at http://www.creatacard.com where packs range from approximately $19 to $28.

When you're ready to print out your card, choose the size you'd like — from A6 up to A3 and click Print Now. The resolution of the graphics we printed out were impressive, although the type of paper you use will possibly vary the quality of the finished product.

However, printing out your card and hand delivering it or sending it through the post isn't the only way you can pass on your greeting. You can send it directly to the recipient via point-to-point e-mail, or send it to American Greetings, who will then print it out on high-quality card stock and mail it for you.

Overall, CreataCard Gold 2 will provide the whole family with hours of fun using the pre-designed collection or designing their own cards and invitations. Highly recommended.

American Greetings CreataCard Gold 2

Overall value: ★★★★★

Minimum system requirements: 486DX, 8Mb RAM, Windows 95, 256-colour, mouse, CD-ROM, 10Mb HDS. Colour printer, 14.4Kb or faster modem recommended.

From: Micrografx Australia (02) 9415 2642; http://www.micrografx.com

List price: $69

Fun for adults

3D Home Architect

Design your dream home, re-design your existing house or add an extension — you can do all this and more with 3D Home Architect.

Start from scratch and put your ideas into motion, or play around with one of the 50 sample plans that are included, rearranging areas that don't suit your family's lifestyle.

There are four ways you can view your plan: Plan View is the view displayed when a plan is first opened (similar to a blueprint); Elevation is a side-view of part of your design; Camera shows a rendered 3D view of the interior design; and Overview is a three-dimensional view of your entire plan, from any angle, without the ceiling.

3D Home Architect

Overall value: ★★★★

System requirements: Windows 3.1 or 95, 20MHz 386SX or higher, 4Mb of RAM for 3.1, 8Mb RAM for 95, 6Mb hard disk space, 2x CD-ROM drive or higher, 640 by 480 VGA montior or higher, soundcard, printer recommended.

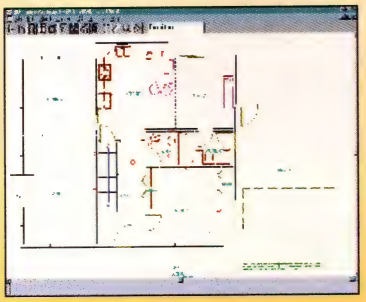
From: Dataflow (02) 9417 9710

Publisher: Broderbund

http://www.broderbund.com

List price: $99.95

Put dreams into action



With 3D Home Architect you can design a house from scratch or re-design your existing abode.

The SmartParts technology allows you to place doors, windows, cabinets, furniture and fixtures with a mouse click, automatically guiding you of their placement. This makes designing and remodelling extremely easy and accurate.

Entire floorplans can be viewed in 2D and 3D or room by room.

When you're satisfied with your plan, conduct an inspection with PlanCheck to avoid potential problems before you commence building.

A list of materials needed to build your house can be prepared and you can print out plans for your contractor or architect.

Be aware though, 3D Home Architect is only designed to create plans and interior elevations. Exterior elevations, cross sections, and details of foundation, wall, floor and ceiling/roof construction should be left up to a trained professional.

3D Home Architect's manual is well written and features a step-by-step tutorial to getting started.

Overall, a great program for amateurs and professionals alike.

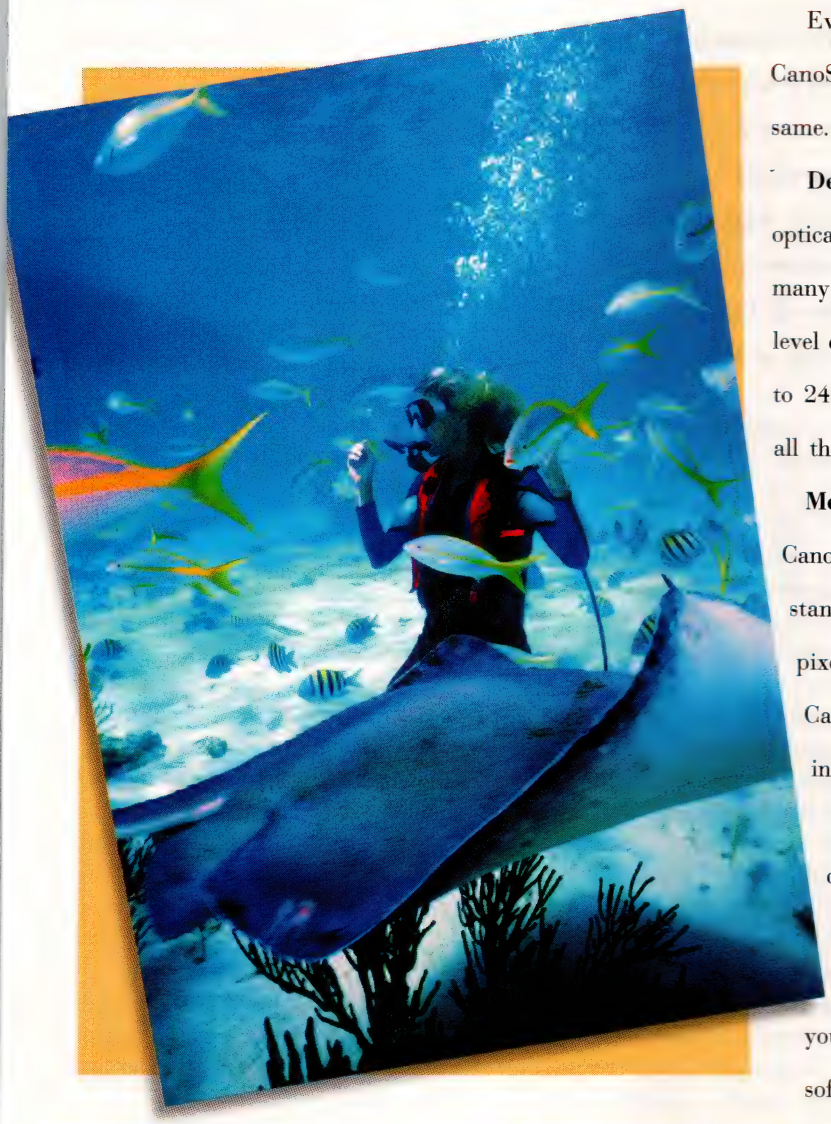
3D Home Interiors

Now you've designed your dream house, how to decorate it? From the same family as 3D Home Architect, 3D Home Interiors should be the next program on your list after you've created the plans of your dream home or a new extension.

Even if you just want to replace that old lounge, redecorate your bedroom or embark on a new colour scheme, 3D Home Interiors will save you countless

High optical definition and up to 30-bit colour scanning for

more colour depth.



Even a quick glance at the incredibly small foot-print CanoScan™ range suggests that not all scanners are quite the same. Look more closely and you'll find even bigger differences.

Definition up to 8000 dpi. Canon scanners start with true optical definition as high as 1200 dpi, up to double the level of many direct competitors. This high optical level can then be enhanced up to 2400 dpi, and interpolated all the way to 8000 dpi!

Extremely small foot-print.

More colour depth. Equally important, Canon has discarded the 24-bit colour input standard. Instead, our models scan up to 30 colour bits per pixel, to read as many as one billion colours! This allows Canon scanners to keep only the most useful bits of colour information in each pixel when it comes time for output.

Superior lighting. A unique Xenon lamp further aids our colour quality. It more closely resembles sunlight to provide even illumination and more natural light for better colours.

SCSI included. CanoScan packages come with everything you need to get started. This includes image editing and OCR software, a high-speed SCSI-II interface card & cable, and a TWAIN driver as standard.

Canon Customer Care. All CanoScan scanners feature a one-year warranty, upgradeable to three years for minimal cost, and are backed by Customer Care hot-line support.

If you would like to learn more call 1800 021 167.

Model	CanoScan 300	CanoScan 600
Interpolated Resolution	Maximum: 4800 dpi	Maximum: 8000 dpi
Enhanced Resolution	1200 x 1200 dpi	2400 x 2400 dpi
Optical Resolution	600 x 300 dpi	1200 x 600 dpi
Colour Input	27-bit (9-bits per colour)	30-bit (10-bits per colour)
RRP*	$499	$799

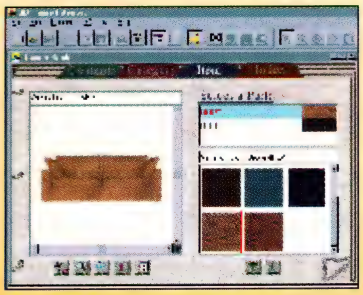
*Prices shown are the recommended retail price, including tax. Interpolation dependent on driver and software used. Canon Australia Pty Ltd ACN 005 002 951. Canon and the Canon logo are registered trademarks and CanoScan is a trademark of Canon Inc.

CS/4370

Photo Realism™

Canon

Interior decoration



3D Home Interiors is a great program to visualise your ideas, even with its American tone.

hours trekking through home furnishing stores for ideas.

Although American-based name brand companies are featured in the catalogue, providing over 100,000 furnishings, appliances and finishes, you'll recognise some that are available in Australia, such as IKEA. You can link to manufacturers' Web pages for additional information on a product you're interested in.

Easy to use, there are thousands of fabrics, colours and textures for lounges, curtains, walls, doors, floors etc. And if you're stuck for inspiration, check out the professionally decorated sample rooms. Once you have drawn up the dimensions of the house or room you are decorating, shop from the Design Book, and then view the finished result in realistic 3D.

When you're satisfied with your interior design, you can then go to a showroom and check out the real thing — fabrics, paint, furniture — if it's available in Australia, or shop for something similar.

Like 3D Home Architect, 3D Home Interiors features an easy-to-understand manual providing a tutorial, basic techniques and tips for better design.

by Fiona Tomarchio

3D Home Interiors

Overall value: ★★★★

System requirements: Windows 95, Pentium, 16Mb RAM, 35Mb hard disk space (65Mb for full install), 2x CD-ROM or higher, 16-bit SVGA colour monitor or higher, printer recommended.

Distributor: Dataflow (02) 9417 9710

Publisher: Broderbund http://www.broderbund.com

List price: $99.95

Going to school in the holidays

Parents

When the school bell rings for the last time this year, kids have the long awaited prospect of summer holidays ahead of them. But as Jeff Quinn suggests, there may be good reasons for using some of that time to top up your child's education, or plan ahead.

With literacy levels and the performance of children at school again the focus of education ministers from both parties, more and more parents find themselves wondering if they are adequately educating their children for their future. The "back to basics" call of past generations rings less loudly in modern parent's ears, although generally, most of our society would agree that acquiring literacy and numeracy skills are a prerequisite to a successful, productive life. To be a successful player in our society's game one needs to master the written word whether the game is computer-based or the larger than life version; and the two will become more mutually inclusive as the new decade proceeds.

The make up and demands of schools, both public and private, are changing. Parental expectations, curriculum stipulations, low teacher morale coupled with relatively low levels of pay (in some instances), a rapidly expanding knowledge base, technological change, socio-economic disparities, and teachers leaving or taking long service leave add stresses to our education system. Such stresses, unlike political ones, don't filter down from the top to the chalkboard coalface but rather they manifest there to be encountered everyday by school staff and pupils. The school's staff are in turn expected to deal with them correctly and efficiently whilst being seen to defend the decisions of their transient political masters as well as teach the children.

So where does our young learner really fit into all this? Remarkably he or she is out there amongst it all doing just that — learning. How much they are learning, however, is anyone's guess.

The influence that the ubiquitous hidden agenda of a school has over an individual can also be profound. Teachers and parents are seeing their own influence diminish as children pay more attention to peer group and media. Unfortunately, this happens all too quickly in the child's life, making it imperative that the real skills and understandings a child needs be learned early and as thoroughly as possible.

The statement that children go to primary school to learn how to read, write and do arithmetic is valid, but they will have a much more productive, enjoyable time in the place if they are good at the three Rs. Nowadays the curriculum is so varied and interesting that the time allocated for the staples of education is competing with other very worthwhile educational pursuits. Not that educators do not consider the three Rs important, it is simply a matter that there is so much they are expected to do and so little time in which to do it.

Impending catastrophe! The end of civilisation as we know it! Well, not really. In reality, now is a very exciting time full of educational opportunities for parents to give to their offspring. It is a time when the individual can exert greater control over the educative process than ever before.

The years everyone spends at school are a very important time. They are a time everyone looks back on. How do you want your kids to feel about their schooling experience, in the now when they are doing it and when they recall those days?

Digital cameras with high performance and absolutely

no negatives.

The easy to use PowerShot 350.

Whether it's a professional quality digital camera for business, or full automation for everyday use, Canon cameras start with a big advantage.

Critically acclaimed PowerShot 600.

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Canon

". . . now is a very exciting time full of educational opportunities for parents to give to their offspring. It is a time when the individual can exert greater control over the educative process than ever before."

If we start with the premise that children will learn no matter what, then it is reasonable for us to take deliberate steps to guide that learning. Some things include:

● **Providing extra curricular assistance on a regular basis.** One way to help prepare a child for a rewarding and enjoyable school experience is to provide him/her with some extra-curricular assistance in the key curriculum areas. But that amounts to more than simply buying a computer and some educational software. The *Yellow Pages* will deliver up a list of coaching or education. Ring a few of them, talk to other parents or ask your school secretary. A child experiencing problems at school will benefit from tutoring by a professional teacher in a non-threatening positive environment. A child who isn't experiencing problems will likely benefit even more.

● **Holiday Brain Top Ups.** Studies have found that teacher expectations of the group and of individuals play a big part in determining learner outcomes and results. After the initial settling in period of the new school year, the first weeks of term are often spent revising skills and concepts expected to be learned in previous years. This is the time when the teacher gets to know the children. A child who remembers the skill or concept not only feels confident and good about him/herself, he/she creates a good impression with the teacher. Many private organisations offer two or three week end of school holiday programs that will refresh and revitalise memories faded by sun, surf and video arcade games. These programs also provide children with a welcome break from what for some can be a time of unsupervised boredom.

● **An alternative to or expanding the peer group.** Using the services of an after school hours education centre to improve the child's performance in the academic subjects can have desirable outcomes other than improving grades. The child will meet new friends and be influenced by educators who value them as individuals and who place a high value on learning. Such input may be the catalyst that encourages the child to break out of the self-destructive peer group or stay at home to study instead of going out with the gang.

● **Maintaining continuity and developing trust.** School teachers for a million different reasons sometimes leave a class in the middle of the year. Some primary school classes may have several teachers in a year, some subjects at high school may be taught by a passing parade of teachers. This scenario is thankfully not the status quo, but it is becoming more frequent. Some children roll on unaffected regardless of the changes, some do not. The after school education centre may be the vital link the child needs to maintain educational continuity. The relationship between the tutor and the child may be the one that perpetuates the child's trust in education.

● **Away from Chalk and Talk — a more individualised approach.** Approaches to classroom management, pedagogical method and the amount of time a teacher can devote to individual students are dependant on the number of children in the class. Generally, the smaller the class the more attention and access to equipment each individual receives. An after school hours education centre will normally offer a much more attractive educator/pupil ratio than the average government or non-government school could envisage. This lower ratio also translates to equipment access. For example, in a modern school with a computer laboratory, a student may receive an hour a week with a partner of computer time. In an after school hours education centre, an 80-minute consultation a child would have 40 to 50 minutes of dedicated computer time, with the educator supervising.

● **A different perspective, success the greatest motivator.** Often what is challenging for a confident child can be mind bogglingly daunting for all the others. An after school hours education centre worth paying will develop an individual program for each of its students, aimed at bolstering their self esteem by allowing them to progress at their own rate. The program ideally would start at a reasonably easy academic level and aim to allow the child to master the concepts and skills as the program develops. Extending the students' ability at their own pace provides not only a better educational outcome but a feeling of achievement and improved levels of confidence.

In many instances it is the absence of success that creates problems at school for our young. In a classroom with 30 children the child who doesn't understand new concepts immediately or has no prior knowledge to assimilate the new concept with will experience the frustration of not knowing and feel like a failure. Eventually receiving enough of these messages will turn him/her off school work and do much to lower her/his self esteem.

Solving the self esteem or learning problem is much more difficult than initiating a long-term strategy that presents children with opportunities which keep them stimulated, motivated and feeling confident and good about themselves. As parents and carers, individuals can prevent the undesirable outcomes by getting involved and understanding the breadth of what their children are learning. Teach the child that learning is one of the ongoing pleasures of life not confined to school hours and the traditional classroom by taking advantage of the scope of educational experiences technological advances have made possible. ❑

Jeff Quinn is a primary school teacher and after hours educational consultant. You can contact him by e-mail on easty@intercoast.com.au

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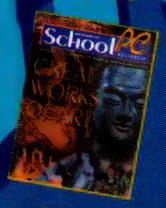

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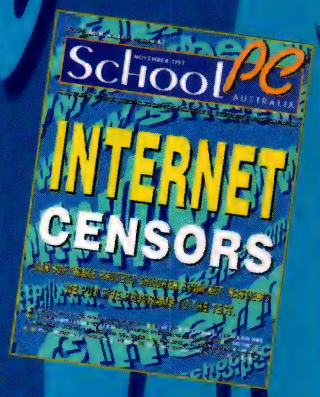

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❑ 1. Managing Director, General Manager
❑ 2. Data Comms/Network Manager
❑ 3. LAN Manager
❑ 4. Microcomputer Manager
❑ 5. MIS Manager
❑ 6. EDP/DP Manager
❑ 7. Project Manager/Group Leader
❑ 8. Engineer/Architect
❑ 9. Accountant/Finance Officer
❑ 10. Systems/Programme Analyst
❑ 11. Consultant/Advisor
❑ 12. Other Computer Department Employee
❑ 13. Educator
❑ 14. Sales Representative
❑ 15. Office Administrator
❑ 16. Student
❑ 17. Other Professional
❑ 18. Other (please specify)

_____

2. What is your organisation's primary business activity?

❑ 1. Government, Utilities
❑ 2. Agriculture, Mining, Oil
❑ 3. Transportation
❑ 4. Construction
❑ 5. Computer Manufacturer/Distributor
❑ 6. Communications
❑ 7. Computer Retailer/Reseller/ Consultant
❑ 8. Finance, Banking, Insurance
❑ 9. Research & Development
❑ 10. Engineering, Architecture
❑ 11. Manufacturing (non-computer)
❑ 12. Retail (non-computer)
❑ 13. Publishing, Media
❑ 14. Health
❑ 15. Legal
❑ 16. Armed Forces
❑ 17. Other (please specify)

_____

3. How much IT equipment do you anticipate being involved with the purchase of during the next 12 months at work? (Please include all hardware, software, peripherals, connectivity equipment and consumables).

❑ 1. None
❑ 2. $1 - $999
❑ 3. $1000 - $4999
❑ 4. $5000 - $9999
❑ 5. $10,000 - $49,999
❑ 6. $50,000 - $99,999
❑ 7. $100,000 - $249,999
❑ 8. $250,000 - $499,999
❑ 9. $500,000 - $999,999
❑ 10. $1,000,000+

4. How many microcomputers are you directly responsible for at work?

❑ 1. 1 - 9
❑ 2. 10 - 19
❑ 3. 20 - 49
❑ 4. 50 - 99
❑ 5. 100 - 499
❑ 6. 500 - 999
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The best of 1997

Reviews

What does a game require to make it into our best games selection? Challenging gameplay and superb graphics for starters. Julian Schoffel rounds up the hottest games of '97.

Arcade/action

Riven

When Myst was released nigh on four years ago the PC (and Macintosh) gaming world took a collective gasp for air. Myst highlighted the potential of the PC as a gaming medium and made full use of the relatively new CD-ROM medium's prodigious storage capacity. So how can you possibly top a game which was impossibly lovely to begin with? Well four long years later, Red Orb Entertainment are attempting to do so with the successor to Myst — Riven.

Riven picks up the story roughly where Myst left off. At the start of the game, Atrus informs the player that the world of Riven is in danger and that Catherine (his wife) is trapped there. Atrus needs someone to go to Riven in his place, rescue Catherine and save the other inhabitants as well.

Now the game wouldn't be very interesting if there was no danger for the player to contend with. And it just so happens that a very powerful, potentially ruinous individual is imprisoned in Riven: Gehn, father of Atrus. In order to minimise the risk of Gehn escaping, Atrus only gives you a one-way ticket in the form of half a magical book. So the game begins with your arrival in Riven, with no effective way out. To add insult to injury, as soon as you arrive your book is stolen, leaving you with no choice but to wander around trying to work out what an earth you should do next.

Now this would be pretty tedious in the real world, but Riven is so breathtakingly beautiful that strolling about and exploring is a pleasure to be savoured. This brings me to an important point: as impossible as it may sound, the creators of Riven have managed to outdo Myst in the graphics department. Every scene in the gaming world has been meticulously ray-traced with the addition of plenty of little incidental animations to help make it live and breath. Indeed words cannot really do the visual splendour of Riven justice.

There are also plenty of non-interactive animated cut-sequences depicting various actions (like travelling on the cable-car) and other narrative events. These are very well done and blend in perfectly with the rest of the game, as are the ambient music and miscellaneous sound effects.

Riven allows a greater initial level of exploration than its predecessor: sure, the puzzles are still there, and are seemingly just as hard, but you can wander around a fair bit before being forced to solve any. Like Myst, Riven abounds with strange levers, gizmos and objects just crying out to be pushed, pulled and prodded by the player — but you'll spend a fair bit of time figuring out what the hell they actually do.

While Myst was a solitary world, only offering the player glimpses and snatches of past events, Riven includes character interaction with humans and other assorted creatures.

In conclusion, Riven is effectively more of the same, with a few changes and tweaks. It will undoubtedly appeal to anyone who enjoyed Myst, but may ultimately disappoint those of you who expected another ground-breaking release (which Myst certainly was). Like its predecessor, the appeal of Riven lies in cautiously and painstakingly exploring a vast fictitious world.

Riven

Genre: Adventure/puzzle
Classification: G
Graphics: ★★★★★
Sound: ★★★★ ½
Gameplay: ★★★★
Overall value: ★★★★ ½

System requirements: P100, 16Mb RAM, 4x CD-ROM drive, 75Mb hard disk space, 16-bit SVGA graphics card, Windows 95
From: Red Orb Entertainment
Distributor: Dataflow (02) 9417 9600
List price: $89.95

Breathtaking visuals

Postcards from the beautiful world of Riven . . .

Top 5 action/adventure games

Title	From	List price	System requirements	Description	Overall value
Tomb Raider (M15+)	Eidos Interactive http://www.pdius.com/	$89.95	P60, 8Mb RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, DOS 6.0	Lara Croft (the female protagonist of Tomb Raider) has rapidly become a cult figure. The Irish band U2 will be using images of her in their 1998 Australian tour. This aside, Tomb Raider is a fantastic game which has been made even better through 3D acceleration. Look out for the sequel early in 1998.	★★★★ ½
Extreme Assault *(See full review this issue)* (G8+)	Blue Byte http://kickass.com/demo/extremea.html	$89.95	486DX4/100, 16Mb RAM, double-speed CD-ROM drive, 40Mb hard disk space, VESA compatible graphics card, Windows 95 or DOS 5.0	EA is an unpretentious action game which delivers glorious visuals without compromising gameplay.	★★★★
Ecstatica II (M15+)	Psygnosis (03) 9329 2999	$89.95	P60, 16Mb RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, Windows 95	E2 is a large and challenging game with striking visuals and a wicked sense of humour.	★★★ ½
Twinsen's Odyssey (G)	Activision http://www.activision.com	$89.95	P75, 8Mb of RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, Windows 95 or DOS 6.0	With its great visuals and sounds, user-friendly interface and gently amusing characters, Twinsen's Odyssey is an attractive proposition for children and adults alike.	★★★★ ½
Riven *(See full review this issue)* (G)	Broderbund Software http://www.broderbund.com	$89.95	P100, 16Mb RAM, quad-speed CD-ROM drive, 75Mb hard disk space, 16-bit SVGA graphics card, Windows 95	Riven offers a quietly satisfying form of cerebral entertainment, punctuated only by the longing sighs of the player, as he or she contemplates the astonishing beauty slowly unfolding on the computer screen.	★★★★ ½

Extreme Assault

Extreme Assault (EA) is a surprise package from the folks who brought us games like Settlers II. The surprise factor lies in the fact that from the box you could be forgiven for dismissing it as just another shallow arcade game heavy on eye candy but sadly deficient in the area of player interaction. With EA this is simply not the case and for once we have an unpretentious action game which delivers glorious visuals without compromising gameplay.

Extreme Assault

Genre: Action
Classification: G8+
Graphics: ★★★★ ½
Sound: ★★★★
Gameplay: ★★★★
Overall value: ★★★★

System requirements: 486DX4/100, 16Mb RAM, 2x CD-ROM, 40Mb hard disk space, VESA compatible graphics card, Windows 95 or DOS 5.0
From: Blue Byte
Distributor: Metro Games (03) 9329 2999
List price: $89.95

But don't buy EA expecting a detailed flight sim with an array of complex campaigns to negotiate. The simplistic premise of the game involves the usual bunch of fiendish aliens setting up a secret base of operations on Earth. The player's goal is very simple: destroy them.

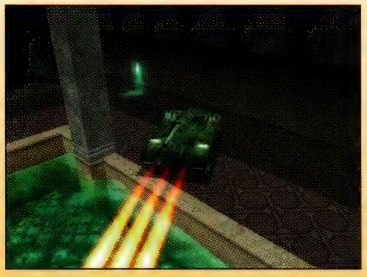
In order to eliminate the alien threat, you have two pieces of hi-tech hardware at your disposal: the Sioux AH-23 attack helicopter and the futuristic T1 assault tank. Both are very intuitive and easy to control, which proves fortunate because the collection of firepower thrown at you by the enemy will require all of your concentration if you are to survive.

The mission objectives of EA are fairly diverse, involving everything from seek and destroy to hostage rescue. The game offers four difficulty settings ranging from 'easy' mode to 'extreme'. Needless to say that anyone who manages to complete even a few missions in 'extreme' mode must possess superhuman dexterity and God-like concentration!

The visuals of EA are beautiful, albeit slightly slow and jerky without the aid of either an MMX processor or 3Dfx accelerator card. With the latter the game runs very smoothly at maximum detail. The missions themselves take place in a variety of different settings ranging from lush green valleys to huge subterranean complexes.

EA is all about having fun while blowing things up and at this it succeeds admirably. The enemies you face are numerous and vary tremendously. Weapon effects and explosions look great and the sound effects and music aren't too shabby either.

More than meets the eye



Extreme Assault is a snazzy looking new action game from Blue Byte.

Short-term satisfaction

Fly an Air-Racer over the icy landscape of the planet Hoth in Shadows of the Empire from LucasArts.

The game includes support for network play over a LAN or via a Kali server on the Net. Special multiplayer operation zones are included with the game. With 57 different missions to complete, Extreme Assault is very good value indeed.

Shadows of the Empire

Yet another Star Wars-based game, Shadows of the Empire (SOE) was originally released for the Nintendo 64 console system. However, 3D acceleration has allowed the game to be ported over to the PC.

While SOE is similar in terms of gameplay dynamics and mission structure to the visually sophisticated but very shallow Rebel Assault titles, it does allow a much higher level of player interaction.

Being a 3D accelerated game you would expect the graphics of SOE to be of a very high calibre and fortunately they are. The missions are fairly varied and encompass everything from piloting an Air-Speeder over the icy landscape of Hoth to first-person levels which take place in cramped corridors. Unfortunately, the latter are pretty boring affairs which only involve running around and toasting the odd Storm Trooper or Boss. These levels pale when compared to the other recent LucasArts' offering: the magnificent Jedi Knight.

While the flight components of the game are fairly absorbing, the control systems are a tad simplistic and may bore those of you who were weened on TIE Fighter. Like Rebel Assault there is also a tendency to feel like you are just there to take pot shots at random waves of space-craft which conveniently fly directly in front of you.

I should probably also mention that the cut-scenes are very pretty and successfully generate quite a bit of Star Wars ambience.

In summary, Shadows of the Empire is the PC gaming equivalent of an iced doughnut: it will probably satisfy a short-term desire for instant action, but you'll ultimately crave something more substantial . . .

Shadows of the Empire

Genre: Action/arcade
Classification: G
Graphics: ★★★★
Sound: ★★★★
Gameplay: ★★★
Overall value: ★★★ ½

System requirements: P90, 16Mb RAM, 4x CD-ROM drive, 3D accelerated graphics card, Windows 95
From: LucasArts
Distributor: Metro Games (03) 9329 2999
List price: $89.95

Atomic Bomberman

Atomic Bomberman (AB) is a spruced up version of an old console classic. While PC gamers are generally a spoilt and snooty lot, having become accustomed to complex gameplay accompanied by some very sophisticated audio-visuals, they shouldn't necessarily dismiss the simpler titles, such as this one.

While AB appears to be almost childishly elemental (basic gameplay involves jigging around a maze while dropping time-delayed bombs on your opponents), it also happens to be horribly addictive. I have perhaps only encountered this strange, addictive phenomena once before and that was with another simple game called Micro Machines 2.

The beauty of AB is that players can learn control and the gameplay fundamentals in a matter of minutes, but then spend hours mastering the tricks which will afford them AB veteran status.

The core of arcade games like AB are undoubtedly the power-ups, which can be found hidden about the place and provide you with enhanced capabilities. Some of these include acceleration, the ability to throw bombs, different types of bombs with special offensive capabilities and so on.

In giving AB a make over for the PC, Interplay has added new artwork, great death animations, digitised taunts which play when you hit a power-up, the ability to customise characters, some new game rules and unfortunately, a very buggy multiplayer feature. That's right, while AB is first and foremost a multiplayer game, the network options of the PC version just don't work very well. Let's hope that Interplay release a patch soon that addresses these problems.

If the multiplayer options were fixed, then I would quite happily recommend Atomic Bomberman as a great way of letting off steam after work. However, in its current form it may only be worthwhile for sentimental individuals who played and loved the earlier console incarnations.

Atomic Bomberman

Genre: Arcade
Classification: G
Graphics: ★★★ ½
Sound: ★★★ ½
Gameplay: ★★★ ½
Overall value: ★★★ ½

System requirements: P90, 16Mb RAM, 2x CD-ROM drive, 2Mb SVGA graphics card, Windows 95
From: Interplay
Distributor: Electronic Arts (02) 9955 7744
List price: $54.95

Spruced up classic

Interplay has jazzed up the visuals for the PC version of the old multiplayer console classic, Atomic Bomberman.

4800 DIRECT II

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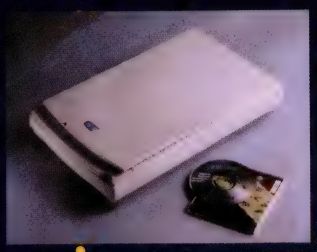

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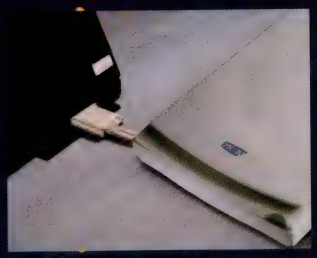

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Top 5 3D action games

Title	From	List price	System requirements	Description	Overall value
Jedi Knight: Dark Forces II *(See full review this issue)* (M15+)	LucasArts http://www.lucas.com	$89.95	P90, 16Mb RAM, double-speed CD-ROM drive, SVGA graphics card, Windows 95	Jedi Knight is a formidable and welcome entrant to the genre of 3D shooters, one of the year's best games. The addition of Force powers make JK Deathmatches a very entertaining proposition.	★★★★½
GLHexen II *(See full review this issue)* (MA15+)	id software http://www.idsoftware.com	$89.95	P90, 24Mb RAM, double-speed CD-ROM drive, 120Mb hard disk space, OpenGL compatible 3D accelerator, Windows 95	The graphics of Hexen 2 are fast, fluid and magnificent, the added depth to gameplay makes single-player mode a hell of a lot more interesting than that of Quake, and tons of new weapons and different character classes should also give the game added longevity.	★★★★½
Outlaws (MA15+)	LucasArts http://www.lucas.com	$89.95	P90, 16Mb RAM, double-speed CD-ROM drive, SVGA graphics card, Windows 95	Outlaws is a solid 3D shooter with an authentic Sergio Leone Western feel. The 3D accelerated version rocks!	★★★★
Quake (MA15+)	LucasArts http://www.lucas.com	$89.95	P90, 16Mb RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, Windows 95 or DOS 5.0	This title really needs no introduction, suffice to say that it has been one of the most popular PC games ever. Check out the demo of the forthcoming sequel, Quake 2.	★★★★½
MDK (G8+)	Shiny Entertainment	$89.95	P75, 8Mb RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, Windows 95 or DOS 5.0	Beautiful, moody graphics, innovative gameplay like the excellent 'sniper mode', served up with a garnish of incredibly off-beat humour make this one of this year's best 3D action releases.	★★★★½

3D action

Jedi Knight: Dark Forces II

3D shooters are undeniably one of the most popular forms of PC game at the moment and a barrage of new titles are now hitting the market in the lead-up to Christmas. Over the past six months, Jedi Knight has generated a huge amount of speculation amongst the PC gaming fraternity. Many people were wondering whether LucasArts had listened to the criticism directed at the original Dark Forces game and subsequently remedied these flaws and omissions while creating Jedi Knight. Well, I am happy to report that none of the problems which plagued Dark Forces are present in its successor.

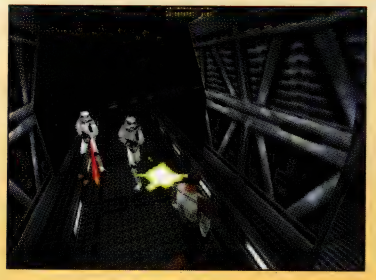
Jedi Knight: Dark Forces II

Genre: 3D action/adventure
Classification: M15+
Graphics: ★★★★½
Sound: ★★★★
Gameplay: ★★★★½
Overall value: ★★★★½
System requirements: P90, 16Mb RAM, 2x CD-ROM, SVGA graphics card, Windows 95
From: LucasArts http://www.lucasarts.com
Distributor: Metro Games (03) 9329 2999
List price: $89.95

Jedi Knight (JK) is based around the Star Wars universe with the player assuming the role of Kyle Katarn once again. While the lack of any cohesive plot made Quake a little weak in single-player mode, JK is the total opposite. From the very start of the game the player is drawn into an absorbing (albeit slightly cliched) storyline involving Kyle's attempts to stop seven Dark Jedi from finding a hidden Jedi burial ground and accessing the phenomenal powers harnessed therein.

The first thing Quake or Hexen II veterans will notice about JK is the scope and scale of the level structure. Each level is absolutely massive and intricately designed. The player will often have to ascend to dizzying heights via narrow catwalks and precarious lifts to complete all level objectives. Apart from the usual array of Star Wars villains like Storm Troopers, Imperial guards and alien mercenaries, JK also includes TIE Fighters, Dark Jedi and Imperial Walkers. While the mere inclusion of these foes adds interest to proceedings, it is the fact that they are so cunningly placed in each level that really spices things up: they usually appear when you are poised in the middle of a narrow bridge or trying to negotiate a particularly tricky jump onto an impossibly small platform.

Brilliant 3D effects

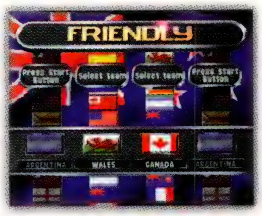


The third-person viewing perspective option in Jedi Knight gives the game a very Tomb Raider-like feel.

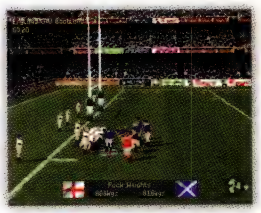
While the standard visuals of JK are competent, the game really requires a good 3D accelerator to be fully appreciated. With the aid of the latter, the terrain, enemies and weapon effects look superb (with the exception of an outdoor level which features some of the crappiest grass textures I have ever seen). Players can also choose between the standard first-person viewpoint and a very Tomb Raider-like third-person perspective. Of course, the sound effects and music are all derived from previous Star Wars offerings and really lend an authentic Star

Big Bloke Big Game

Jonah Lomu Rugby™



Team Selection



Scrums

Line outs....

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Wars ambience to the game.

One of the most innovative features of JK is the inclusion of Force powers. As JK progresses, players will have to master Jedi skills and eventually align themselves with either the Light or Dark side of the Force. There are 12 Force powers in all with four common to both sides and four unique to the Light and the Dark. Whichever side you choose will effect the final outcome of the game.

The weaponry of JK is very similar to that found in Dark Forces and includes Rail guns, Concussion rifles and so on. However, as your Jedi skills improve, you will eventually have access to the best weapon in the game: the Lightsaber. This little puppy can prove extremely useful for both its offensive and defensive capabilities.

To address the flaws of its predecessor LucasArts has incorporated a proper savegame feature and added multiplayer support. The Force powers add a new dimension to multiplayer sessions, allowing you to throttle opponents from a distance and even steal their weapons!

In conclusion, Jedi Knight is a formidable and welcome entrant to the genre of 3D shooters. Very highly recommended.

GLHexen II

If you haven't played Doom or Quake by now you've either been spending some time dead (for tax purposes) or you've been backpacking in outer Mongolia for the last five years. Those of you who have played these 3D classics will also be familiar with the Doom spin-offs: Heretic and Hexen. Both of these were basically Doom with some new graphics and a few role-playing elements thrown in to mix things up a bit. Now Raven Software (the folks responsible for Heretic and Hexen) have taken an enhanced version of the Quake engine and created Hexen 2.

GLHexen 2 (H2) features some of the most advanced 3D graphics ever to appear in a PC game, and with the aid of an OpenGL compatible 3D accelerator card, it will have your non-PC-owning friends drooling and slathering in envy.

While Quake was basically just a good excuse for a slaughter-fest, Hexen 2 requires a lot more thought. Players can choose from four character types: Paladin, Crusader, Necromancer and Assassin, with each class possessing special abilities. The Necromancer, for example, can create an undead army from corpses of the enemy, while the Crusader has special healing abilities, the Paladin relies on brute force and the Assassin uses stealth.

It's good to see that Raven has put more emphasis on single-player mode, which means that H2 features more puzzles to solve and often requires you to travel to and fro between different levels in order to do so. There is a diverse assortment of terrain and architecture within the game and it is obvious that the designers went to great lengths to authentically recreate each style. Players will have to navigate through four beautiful time zones in order to complete the game: Medieval, Egyptian, Mesoamerican and Roman. The spell and weapon effects also look fantastic.

One of the most pleasing things about H2 is the high level of interaction with the gaming environment. Players can operate giant crossbows, smash pots and chests to find hidden items, kill the odd sheep (for weapon or spell testing purposes of course . . .), smash windows, trash furniture and so on. There is also a diverse assortment of weapons and other goodies to pick up. These include items like the tome of power (which temporarily beefs up your spells), repels (which blow enemies backwards), health and mana potions, armour, magical objects like rings of water-breathing and boots of speed etc.

The monsters of H2 look great and tend to display quite a high level of AI. Once they spot you, they generally follow you and they even seem to exhibit caution when the need arises: I was most surprised when one poked his head around a corner exposing my carefully contrived ambush, and then retreated, forcing me to fight it out with him in the open!

H2 introduces some new movement options, including the ability to crawl and fly (the latter only if you have the appropriate spell). There are also plenty of great looking underwater sections chock full of aquatic beasties and puzzles.

The levels of H2 are cunningly designed with some very subtly disguised secret areas which require a fair bit of detective work to uncover. So if you see something unusual, for example, a strange symbol on a wall, my advice is to try and push it or hit it with a weapon or spell. It may yield the entrance to a new area which could possibly contain that item you've been searching for the last three days!

Naturally, H2 also inherits all the multiplayer capabilities of its monstrously successful sibling. The new movement options (for example, the ability to crawl and fly) could make Hexen 2 Deathmatch sessions even more of a headache to win than those of Quake.

So in summary, the graphics of

Advanced 3D graphics

The OpenGL accelerated version of Hexen 2 features some of the most impressive graphics ever devised for a PC game.

GLHexen II

Genre: 3D action/adventure
Classification: MA15+
Graphics: ★★★★ ½
Sound: ★★★★
Gameplay: ★★★★
Overall value: ★★★★ ½

System requirements: P90, 24Mb RAM, 2x CD-ROM, 120Mb hard disk space, OpenGL compatible 3D accelerator, Windows 95
From: id Software http://www.idsoftware.com
Distributor: Activision (02) 9869 0955
List price: $89.95

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Top 5 real-time strategy games

Title	From	List price	System requirements	Description	Overall value
Dark Reign: The Future of War *(See full review this issue)* (G8+)	Activision http://www.activision.com	$89.95	P90, 16Mb RAM, quad-speed CD-ROM drive, 130Mb hard disk space, PCI graphics card, Windows 95	If you're into real-time strategy then Dark Reign is one of the year's best.	★★★★½
Total Annihilation (G8+)	Cavedog http://www.cavedog.com/	$89.95	P100, 16Mb RAM, double-speed CD-ROM drive, SVGA graphics card, Windows 95	A surprise package, Total Annihilation is an innovative real-time title which is rapidly annexing the competition in this over-populated genre.	★★★★½
Dungeon Keeper (M15+)	Bullfrog http://www.bullfrog.co.uk	$89.95	P60, 16Mb RAM, quad-speed CD-ROM drive, 65Mb hard disk space, 1Mb PCI SVGA graphics card, Windows 95 or DOS 6.22	Dungeon Keeper is a break-through game which successfully integrates a number of different genres into one cohesive and extremely slick title. The depth and complexity of gameplay is further complemented by some awesome graphics and atmospheric sound effects.	★★★★½
KKnD Extreme (M15+)	Electronic Arts http://www.ea.com	$89.95	P75, 16Mb of RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, Windows 95	New missions and gameplay enhancements make this Aussie game compulsory fare for any real-time aficionado.	★★★★½
X-COM Apocalypse (M15+)	Microprose http://www.micropose.com	$89.95	P100, 8Mb RAM (15Mb under Win 95), quad-speed CD-ROM drive, 60Mb hard disk space, SVGA graphics card, Windows 95 or DOS 5.0	Real-time combat adds a totally new dimension to the game and there are a host of new and more revolting species of aliens to exterminate, more weapons and alien technologies. In short, a hell of a lot more depth!	★★★★½

Hexen 2 are fast, fluid and magnificent, the added depth to gameplay makes single-player mode a hell of a lot more interesting than that of Quake, and tons of new weapons and different character classes should also give the game added longevity.

The only negative of Hexen 2 is that those of you without 3D accelerators will really feel inadequate when you see the OpenGL version! Very highly recommended.

Real-time strategy

Dark Reign: The Future of War

Real-time strategy games are one of the most popular varieties available for the PC platform, offering a sickeningly addictive mix of strategy (well obviously . . .) and frenetic action. For the past few years this genre has been dominated by the likes of C&C, Red Alert and Warcraft II. One of the most appealing features of these titles was the fact that they could be played over the Internet via IPX emulation (for example, Kali servers or Westwood Chat).

So what new and alluring 'bells and whistles' can Dark Reign, the latest real-time strategy title from Activision, offer the gamer who wants more bang for his buck?

The first thing old C&C or RA veterans will notice about Dark Reign are the new terrain variables: different terrain affects unit movement and line of sight in a more realistic way. This means that while your infantry can easily climb over a hill, your big, bad hover tanks will have to find an alternate route. It also means that units on elevated terrain can see a whole lot more of the game-map than those who aren't.

Apart from this, Dark Reign also allows the player to set detailed way-point routes and tinker with each unit's behaviour characteristics. Those of you who played C&C will remember that each mission (single-player or multiplayer) usually began with the tedious task of guiding a scout unit around the game-map to find out where the enemy was and what firepower he was packing. In Dark Reign you can just select units and then designate an automated task (for example, scout, search and destroy etc), but you can also specify how aggressive or independent you want them to be while performing the task.

The graphics, sound effects and general presentation of Dark Reign are also excellent, easily matching those of

Dark Reign: The Future of War

Genre: Real-time strategy
Classification: G8+
Graphics: ★★★★
Sound: ★★★★
Gameplay: ★★★★ ½
Overall value: ★★★★ ½

System requirements: P90, 16Mb RAM, 4x CD-ROM, 130Mb hard disk space, PCI graphics card, Windows 95
From: Activision http://www.activision.com
Distributor: Activision (02) 9869 0955
List price: $89.95

New king of strategy

Dark Reign is definitely one of the best new real-time strategy games to be released in 1997.

Real-time combat

Explosive action from the new real-time strategy game Dark Colony.

its competitors. So if you're into real-time strategy, this is definitely the new king of the hill. Dark Reign also offers modem and network play as well as Internet play for up to four players via Activision's ActiveNet servers.

Dark Colony

Dark Colony is yet another entrant to the rapidly over-populating genre of real-time strategy. While Dark Reign woos gamers with its innovative and complex unit command features, Dark Colony prefers to stick to the tried and tested formula made famous by C&C and Warcraft II.

Dark Colony takes place on Mars. Mankind has successfully terraformed the red planet and is subsequently mining it for an alien gas known as Petra-7 (similar to Tiberium, gold, lumber etc). However, humans aren't the only inhabitants of Mars and some refugee aliens are rapidly becoming annoyed. The wily little buggers want the humans to stop pillaging their new home planet and depart as soon as possible. Hmm, sounds like a good excuse for some real-time combat . . .

Gameplay of Dark Colony will be very familiar to anyone who has played C&C or Warcraft II. The player constructs a base and then builds on adjacent blocks of terrain. Units include everything from cyborgs to small robotic vehicles. Interestingly enough, the aliens produce KKnD-like biological weapons in the form of revolting, explosive-spitting animals.

Perhaps the only feature which differentiates Dark Colony from other real-time strategy titles is the gore. When caught in the lethal spray of alien snot, humans tend to loose parts of their anatomy: a head here, some legs there . . . The resulting spectacle involves copious amounts of blood spraying about the place in a rather lavish (and satisfying) manner.

Unfortunately, apart from the blood, the game doesn't really offer anything new. Sure the graphics are crisp and colourful, but gameplay tends to fall into the all too familiar 'build up base quickly, amass troops, charge enemy base' etc. And when you start to analyse the various facets of the game, you see a very pronounced pattern of cloning, ie, plot from X-COM, gameplay from C&C, KKnD and Warcraft II etc.

However, Dark Colony is still a solid game in its own right and when you think about it, just about every other real-time strategy title is also heavily influenced by the aforementioned classics, so I see no reason why this game should be penalised for it. If you're a real-time strategy junkie, have already played everything else to death and don't mind seeing the odd dismemberment, Dark Colony is definitely worth a try.

Dark Colony

Genre: Real-time strategy
Classification: M15+
Graphics: ★★★★
Sound: ★★★★
Gameplay: ★★★ ½
Overall value: ★★★ ½

System requirements: P90, 16Mb RAM, 2x CD-ROM drive, SVGA graphics card, Windows 95
From: SSI
Distributor: Directsoft (02) 9482 3455
List price: $89.95

Beasts & Bumpkins

Ah, at last a real-time strategy game which takes a very different approach to the genre. Beasts & Bumpkins (or B&B) casts the player in a God-like role. But instead of building hi-tech bases and weapons of mass destruction, your goal will be to help a bunch of appealingly dimwitted peasants survive the ravages of the natural, and not so natural, world.

Survival of the fittest

Control the destiny of a bunch of smelly peasants in Beasts & Bumpkins from EA.

In single-player mode, B&B features around 30 missions. Gameplay revolves around keeping your human subjects well-fed, housed, healthy and horny. Yes, the latter is no misprint and procreation will feature very heavily on your tactical agenda. At first your building will be limited to simplistic but important structures like bakeries and hen houses, but as the game progresses you can create guilds and other more advanced structures like guard towers. Many of these are particularly vital to efficiency and allow you to train your people to fulfil allotted tasks more quickly.

Everything costs money and in this case you acquire it by selling necessities like bread and eggs to your subjects. But you have to monitor your pricing or you will soon be using that time honoured phrase: "Help, the peasants are revolting!"

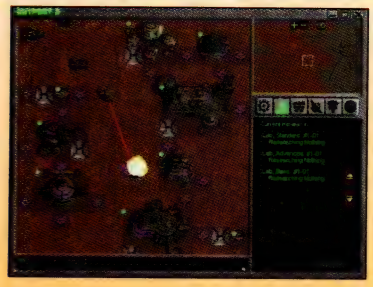
Now this may all sound fairly simple,

Beast & Bumpkins

Genre: Real-time strategy
Classification: G8+
Graphics: ★★★ ½
Sound: ★★★★
Gameplay: ★★★ ½
Overall value: ★★★ ½

System requirements: P75, 16Mb RAM, 4x CD-ROM drive, 20Mb hard disk space, 2Mb SVGA graphics card, Windows 95
From: Electronic Arts
Distributor: Electronic Arts (02) 9955 7744
List price: $89.95

Tedious gameplay



Buildings tend to look very similar in Outpost 2, making life a little difficult for gamers in the heat of combat.

but B&B regularly throws a variety of natural (and unnatural) spanners in the works to make your life that little bit harder. These can involve anything from an invasion of zombies to a poor crop harvest. The game becomes increasingly more complex as it progresses and factors like selective breeding, combat and careful resource management all have to be contended with in real-time. No mean feat, I can assure you!

Probably the best aspect of the game is the oddball humour. Raunchy, giggling peasant girls and impressive farting sound effects can very easily divert your attention from a sudden epidemic of exploding cows. This may sound funny, but what's going to happen to your milk income now old "Daisy" has spontaneously combusted?

The SVGA graphics of B&B are crisp and colourful with some nice character animations. There is also a four-player network option.

So if you like real-time strategy but yearn for something a little different, Beasts & Bumpkins may be the solution. Recommended.

Outpost 2: Divided Destiny

I can still remember the hype surrounding the original turn-based Outpost game. Prior to its release, Sierra made all sorts of outrageous claims only falling marginally short of offering world peace and a cure for cancer. After it finally hit the stores it didn't take too long for gamers to realise they'd been duped. While the game had some great animated cutscenes, it also happened to be buggier than a Darlinghurst flat and very much unfinished. It was also boring to play . . . So why on earth would Sierra bother creating a sequel?

I can only assume that the PC gaming juggernaut (Sierra) decided it was time to stake their claim in the incredibly popular genre of real-time strategy. Unfortunately, Outpost 2 pales in comparison to other recent releases like Dark Reign.

While the visuals of Outpost 2 are certainly up to scratch, gameplay lacks the required real-time components: fluidity, variety and non-stop action. The three major problems which hurt the game are speed (or lack thereof), pathetic AI (artificial intelligence) and buildings which are damned hard to tell apart.

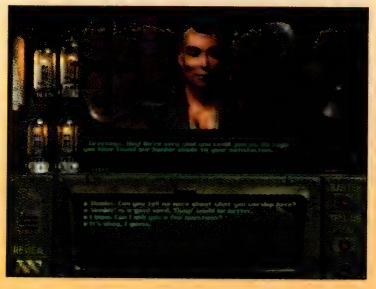
Players who have cut their teeth on C&C or Red Alert will be familiar with that euphoric feeling of being in 'the zone': where your mind works at a lightning pace, building structures, scouting out the map, deploying units and ultimately enjoying the fruits of your labour as you watch the Construction Yard of your enemy go up in a ball of flame. You walk away from the computer with a warm, fuzzy feeling . . . This Zen-like state of mind is impossible to attain with Outpost 2 because the game crawls. Sure you can tinker with unit behaviour and allocate building tasks, but they take so long to complete you could almost go away for a nap, come back and still win the scenario!

So Outpost 2 follows firmly in the infamously shaky footsteps of its predecessor. It isn't quite as buggy, but it is pretty tedious. It's just a pity Sierra didn't put "guaranteed cure for insomnia" on the box, it probably would have made the company millions . . .

Outpost 2: Divided Destiny

Genre: Real-time strategy
Classification: G8+
Graphics: ★★★★
Sound: ★★★ ½
Gameplay: ★★
Overall value: ★★ ½
System requirements: P90, 16Mb RAM, 2x CD-ROM drive, SVGA graphics card, Windows 95
From: Sierra
Distributor: Metro Games (03) 9329 2999
List price: $89.95

Turn-based system



Interact with multiple characters in Fallout, the new RPG from Interplay.

RPGs

Fallout

Fallout is an interesting (albeit somewhat grim) new role-playing title from Interplay. The game is set in a post-apocalyptic vision of the future, where an entire generation of people have spent their lives in subterranean vaults to avoid the hazardous, war ravaged surface.

The player's destiny is linked with one of these underground communities: Vault 13. At the start of the game Vault 13 is running out of pure water and your first mission will be to find a new water purification chip. In the tradition of older style RPGs, the player has the choice of either creating their own character, tinkering with various skills and other attributes, or selecting a pre-generated one.

Depending on the skill and attribute mix, characters generally fall into three broad categories: deceptive, diplomatic and combative. These variables affect the approach your character will have to take in different

Top 5 role-playing games

Title	From	List price	System requirements	Description	Overall value
Lands of Lore II: Guardians of Destiny	Weswood Studios http://www.westwood.com	$89.95	P75, 16Mb RAM, quad-speed CD-ROM drive, 105Mb hard disk space, PCI graphics card, Windows 95 or DOS 5.0	LOL2 is probably the best, most accessible RPG to be released in recent years.	★★★★½
Diablo (MA15+)	Blizzard Entertainment http://www.blizzard.com	$89.95	P60, 8Mb RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, Windows 95	A first rate action-oriented RPG with a great Internet multiplayer option. The visuals of Diablo have to be some of the best ever to appear in a PC game. Look out for the sequel late in 1998.	★★★★½
Fallout *(See full review this issue)*	Interplay http://uvision.com/	$89.95	P90, 16Mb RAM, double-speed CD-ROM drive, 11Mb hard disk space, SVGA graphics card, Windows 95 or DOS 5.0	Fallout is a massive and intricately designed, post-apocalyptic RPG with many, many hours of potential gameplay.	★★★★
Daggerfall (M15+)	Virgin Interactive Studios	$89.95	486DX2/66, 8Mb RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, DOS 6.0	By God this is a huge game! Players who have a yen for exploration and adventure on an epic scale should feel right at home with Daggerfall.	★★★★
Ultima Underworld 1&2	Origin http://www.owo.com	$19.95	386DX/40, 4Mb RAM, double-speed CD-ROM drive, DOS 5.0	Oooh, I'm showing my age! The very fact that this vintage classic keeps popping up in our 'best of' list just goes to show how few quality RPGs have been released since the golden era of the early 1990s! Still, any RPG fan should have at least one copy of the Underworld games in their collection.	★★★★½

situations, ie, a diplomatic character with high charisma is more likely to talk their way out of a fight, while a combative character prefers to go in with all guns blazing.

Fallout is a turn-based game, very similar to Jagged Alliance in many ways. Like Jagged Alliance you have a finite number of action points to use each turn. Some actions use more points, but gaining experience will increase your character's overall quota as the game progresses. This turn-based system has its advantages and disadvantages. While it means that careful thought must be put into all of your character's actions, it can also be a bit of a pain, especially at the start of the game where you don't have many action points to play with.

The top-down, angled perspective graphics of Fallout are quite good, but they lack the clarity and fluidity of games like Crusader: No Regret or Diablo, but the rendered intro and incidental cut-scenes are fantastic and really set the mood for the rest of the game. Sound effects and music are also of a very high quality.

Controlling your character is made very easy via a mouse. Context sensitive menus and sub-menus appear by pointing and holding down a button, making it simple to perform tasks like accessing your inventory or searching a body or object. The gameworld offers a vast amount of potential interaction, reminiscent of some of the older Ultima games, ie, if you can see it, you can probably use it in some way.

There's no denying that Fallout is a massive and intricately designed RPG with many, many hours of potential gameplay. But only if you can come to terms with the turn-based nature of the game and sombre subject matter. Being a fairly ghoulish lot at *PC User*, we liked it a lot!

Fallout

Genre: RPG
Classification: TBA
Graphics: ★★★★
Sound: ★★★★
Gameplay: ★★★★
Overall value: ★★★★

System requirements: P90, 16Mb RAM, 2x CD-ROM drive, 11Mb hard disk space, SVGA graphics card, Windows 95 or DOS 5.0
From: Interplay
Distributor: Electronic Arts (02) 9955 7744
List price: $89.95

Blood Omen: Legacy of Kain

Blood Omen is another console title which has been ported over to the PC from the Sony PlayStation. While the game only just qualifies for the RPG tag, it is nevertheless surprisingly compelling and absorbing.

Blood Omen concerns the quest for mortality by an undead nobleman (Kain). This means that in an unusual twist you find yourself being killed at the start of the game. From here on in the player must guide Kain through a variety of dangerous environments, all the while satiating Kain's need for fresh human blood.

The game is viewed from the top-down perspective, and while the graph-

Blood Omen: Legacy of Kain

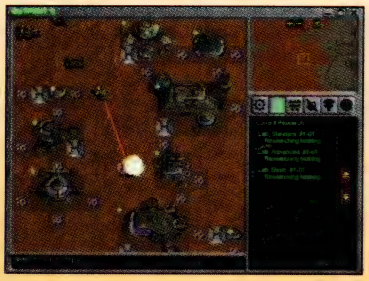
Genre: RPG
Classification: MA15+
Graphics: ★★★½
Sound: ★★★★
Gameplay: ★★★
Overall value: ★★★½

System requirements: P100, 16Mb RAM, 4x CD-ROM, SVGA graphics card, Windows 95
From: Activision
Distributor: Activision (02) 9869 0955
List price: $89.95

Top 5 sports simulations

Title	From	List price	System requirements	Description	Overall value
Virtual Pool 2 *(See full review this issue)* (G)	Interplay http://uvision.com	$89.95	P90, 16Mb RAM, double-speed CD-ROM drive, SVGA graphics card, Windows 95	Virtual Pool 2 is nearly perfect. Little details like markers on the cue balls and tables really help you improve your game. Plus the interface replicates the feel of wielding a cue stick and you just won't get that with any other form of PC sporting simulation.	★★★★½
Grand Prix 2 (G)	Micropose http://www.microprose.com	$89.95	486DX2/66, 8Mb RAM, double-speed CD-ROM drive, SVGA grapics card, DOS 6.0	Grand Prix 2 will appeal to all lovers of Formula One. SVGA graphics and excellent car dynamics make this a classic car racing sim.	★★★★½
Moto Racer *(See full review this issue)* (G)	Elecronic Arts http://www.ea.com	$89.95	P90, 16Mb RAM, quad-speed CD-ROM drive, 2Mb SVGA graphics card, Windows 95	Moto Racer provides a highly enjoyable romp aboard motocross or superbikes.	★★★★
Links LS 98 (G)	Access Software http://www.accesssoftware.com	$89.95	P90, 16Mb RAM, quad-speed CD-ROM drive, 30Mb hard disk space, PCI graphics card, Windows 95 or NT 4.0	The definitive golf sim just got better . . .	★★★★½
Need For Speed II (G)	Electronic Arts http://www.ea.com	$89.95	P90, 16Mb RAM, quad-speed CD-ROM drive, 10Mb hard disk space, PCI graphics card, Windows 95	If you like insane, adrenalin pumping action, gorgeous graphics and kick-ass sounds, NFS2 will have you foaming at the mouth.	★★★★

Compelling storyline



Blood Omen tells the story of a cursed nobleman's quest for mortality.

ics are quite appealing in hi-res mode, they do tend to suffer a little in the speed department. There is no doubt that this game would have benefited greatly from the 3D acceleration treatment, but unfortunately there is no indication that 3D support will be forthcoming.

Probably the most appealing aspect of the game is the atmosphere generated by the excellent voice-acting of Simon Templeman who plays the lead role. He manages to make the unlikely plight of Kain plausible and lends a certain sombre broodiness to proceedings.

During the game Kain gains various magical abilities which allow him to take the form of a werewolf, bats and a vaporous cloud of mist. Kain can also disguise himself as a peasant, allowing him to extract information from the locals without having them attempt to drive a wooden stake through his heart every 10 seconds. Many of the game's puzzles are built around Kain's shape-shifting abilities, or rather when to use them. Players must familiarise themselves with the inherent strengths and weaknesses of these forms and then use them at the appropriate time.

Combat in the game requires the usual mouse dexterity and can become a little tedious at times, but the compelling storyline and atmospheric visuals do compensate for this. I mean it is a console game after all, so what do you expect?

All in all, Kain is a fairly competent offering which should appeal to gamers who have a dark side to their personality.

Simulations

Virtual Pool 2

The original Virtual Pool was an amazing game in its own right and by practising with it, I finally managed to stop embarrassing myself on the tables at the local pub. So how do you go about improving a game which was nearly perfect to start with? Well Interplay had a few ideas and the resulting title, Virtual Pool 2 (VP2), actually manages to top its impressive predecessor.

For starters VP2 looks incredible. The tables, cue sticks and balls look about as close to the real deal as you can get. There are now three new texture-mapped pool balls to strut your stuff in as well as a host of new games to try, including 3-Ball, 10-Ball, Bank Pool and One Pocket. All the old faves are there as well.

Probably the most amazing aspect of VP2 is the physics model. This really recreates the mechanics of making a pool shot. Unlike most PC simulations, VP2 reproduces the feel of the sport so well that by using it you can actually improve your game (I wasn't kidding about how much it helped my game).

Virtual Pool 2

Genre: Pool simulation
Classification: G
Graphics: ★★★★½
Sound: ★★★★
Gameplay: ★★★★★
Overall value: ★★★★½
System requirements: P90, 16Mb RAM, 2x CD-ROM drive, SVGA graphics card, Windows 95
From: Interplay
Distributor: Electronic Arts (02) 9955 7744
List price: $89.95

The new, slightly tweaked physics model of VP2 even allows you to make jump shots.

Running through Windows 95, VP2 is incredibly easy to use. All of the option menus sit at the top of the Window and tasks like changing screen resolutions (from 640 by 480 right up to 16-bit 1152 by 864) only involve a simple mouse click.

VP2 also includes a tournament mode with 128 computer opponents and player ranking categories, along with an FMV tutorial from Hall of Famer Mike Sigel. But one of the best features is the ability to play via a network or modem.

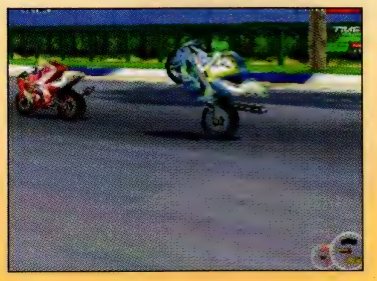
In conclusion, Virtual Pool 2 is nearly perfect. Little details like markers on the cue balls and tables really help you improve your game. Plus the interface replicates the feel of wielding a cue stick and you just won't get that with any other form of PC sporting simulation. If you like pool then Virtual Pool 2 is a must-have.

Moto Racer

Now let me say from the outset of this review that I'm a motorcycle fiend. Over the past couple of years I've owned no less than nine bikes! Which makes me both a money wasting idiot and a motorcycle salesman's best friend I guess . . . I even receive engraved pens and cards from dealers on my birthday — truly! So it was with some excitement that I loaded up Moto Racer from EA.

Before I begin this review, here's a quick lesson on the unique characteristics of a motorcycle.

Challenging tracks



Moto Racer puts the gamer aboard a high powered superbike or motocross.

So what makes a motorcycle handle differently from a car? Well the power to weight ratio means that sports bikes accelerate faster than just about anything else on the road. The downside of this is that bikes obviously only have two wheels, which translates into a much smaller tyre contact patch on the road surface and thus less breaking efficiency. Probably the only other differentiating feature you have to worry about is steering lean: in order to get a bike to go around a tight corner at speed, you have to physically lean it — the faster you're going, the steeper the angle of lean. On a race track this means that you will be dragging a knee along the ground at regular intervals. Okay, lesson over. Now the big question is how well these characteristics are implemented in the game.

After considering the above facts, it soon becomes clear that the designers of Moto Racer weren't really attempting to create a serious motorcycle simulation. For starters the bikes are too easy to ride (even with the adjustable difficulty levels). While motorcycles do have inherent disadvantages in the area of breaking, it is still vitally important when going into a corner. In Moto Racer it's just too easy to take fast corners without breaking much on the approach. The game is also a tad generous in the area of steering lean, giving an unrealistically wide margin for error and it's also a little hard to lift the front wheel (wheelie). On a real racing bike, twisting the accelerator even a tad too much will result in an instant and rather worrying wheelie! Okay, so now I've established that Moto Racer is really more of an arcade game — but is it fun to play? In a word, yes.

You can race either a motocross or a superbike and there are eight tracks to choose from. However, not all the tracks are available to you at the start of the game. To get access you have to place in the top three on the first four tracks — in Championship mode I might add! While this may annoy some, it does create a degree of challenge and added incentive to keep playing.

The graphics of the game are great with 3D acceleration, but rather slow and jerky without. With only two graphical resolutions to choose from (640 by 400 or 640 by 480), those of you who are still shopping around for a 3D card may seriously want to hold off buying Moto Racer. The sound effects are pretty good, effectively recreating the cacophonous roar of superbikes. Computer-controlled opponents are also pretty challenging and most players will find it tough winning races on a regular basis. If you get bored with solo play you can start a network game or burn rubber via the Net.

All in all, even with its limitations, I found Moto Racer to be extremely enjoyable. Recommended.

Moto Racer

Genre: Motorcycle racing arcade sim
Classification: G
Graphics: ★★★★
Sound: ★★★★
Gameplay: ★★★ ½
Overall value: ★★★★

System requirements: P90, 16Mb RAM, 4x CD-ROM, 2Mb SVGA graphics card, Windows 95
From: Electronic Arts
Distributor: Electronic Arts (02) 9955 7744
List price: $89.95

Space combat

Starfleet Academy

To date I really can't think of one Star Trek PC title which truly does this sci-fi phenomena justice. So far we have had a multitude of Star Trek adventure games but no space combat sims. Finally, in a move to rectify this startling omission, Interplay has released Starfleet Academy (SFA).

While the basic mechanics of the game follow very much in the footsteps of titles like the Wing Commander series from Origin, SFA also attempts to authentically recreate the Star Trek uni-

Top 5 flight/miscellaneous combat simulations

Title	From	List price	System requirements	Description	Overall value
688 (I) Hunter/Killer (G)	Electronic Arts http://www.ea.com	$89.95	P90, 16Mb RAM, quad-speed CD-ROM drive, 1Mb SVGA graphics card, Windows 95	This highly detailed and comprehensive submarine sim is just the sort of thing gamers have come to expect from Jane's Combat Simulations.	★★★★
Starfleet Academy *(See full review this issue)* (G8+)	Interplay http://uvision.com/	$89.95	P90, 16Mb RAM, quad-speed CD-ROM drive, 150Mb hard disk space, SVGA graphics card, Windows 95	With its fancy space combat engine and authentic Star Trek feel, this is a must-have for fans of the series.	★★★★
JetFighter III (G8+)	Interplay http://uvision.com/	$89.95	486DX4/100, 8Mb RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, DOS 5.0	Beautiful hi-res visuals and an accessible flight engine make JetFighter III one of the year's better flight sims.	★★★★
Wing Commander IV: The Price of Freedom (G8+)	Origin http://www.owo.com	$69.95	486DX4/100, 8Mb RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, DOS 5.0	While WC4 is nearly two years old, it still showcases the multimedia capabilities of the average PC. Despite its age, the space combat engine is still on par with contemporary titles like Starfleet Academy. Look out for the newest Wing Commander game around Christmas.	★★★★½
AH-64D Longbow (G8+)	Electronic Arts http://www.ea.com	$89.95	486DX4/66, 8Mb RAM, double-speed CD-ROM drive, 1Mb SVGA graphics card, DOS 5.0	Its stunning graphics and incredible realism still eclipse many newer offerings. But wait until you see the next helicopter sim in the series!	★★★★

verse allowing players to fly and fight against many of the craft which have graced TV and movie screens over the past 30 years. The big question is whether or not it succeeds. Well, yes and no . . .

Strangely enough, Interplay decided to revert back to the original cast with the characters of Commander Chekov, Captain Sulu and, of course, Kirk reprising their screen roles for the game. I'd hate to think how large the wig budget for the SFA was, but I digress. As the name suggests, Starfleet Academy casts the player in the role of a young officer cadet hoping to eventually cut it as captain of a Federation ship. In order to do this you must take control of a group of young classmates and guide them through a series of missions on the Starfleet Bridge Simulator.

Starfleet Academy

Genre: Space combat simulation
Classification: G8+
Graphics: ★★★★ ½
Sound: ★★★★
Gameplay: ★★★ ½
Overall value: ★★★★

System requirements: P90, 16Mb RAM, 4x CD-ROM, 150Mb hard disk space, SVGA graphics card, Windows 95
From: Interplay
Distributor: Electronic Arts (02) 9955 7744
List price: $89.95

Like the aforementioned Wing Commander, SFA is split into two parts. The first involves flying the missions themselves and the second manifests itself in the FMV sequences between these missions. So apart from honing up your space-combat skills, you are also faced with the task of exhibiting effective leadership skills. But it's not all plain sailing, wouldn't you know it: there is a fiendish conspiracy hatching somewhere amongst your ranks and it's up to you to thwart it. While the FMV sequences are quite well done, with some rock solid performances from the old (quite literally) Star Trek hands, it's frustrating to see the FMV problem of scanty player interaction arise once again. I mean, talking to people and hoping like hell you chose the right response isn't my idea of deep and intriguing gameplay.

Still, the heart of SFA is space combat and in terms of visual splendour, the combat engine really looks the goods. With the aid of 3D acceleration, Romulan and Klingon vessels appear (when they're not cloaked that is) with colourful clarity on your screen. Explosions and weapon effects also look great but there are a few problems which will have TIE Fighter and Wing Commander veterans scratching their heads. In adhering so faithfully to the Star Trek universe, the game designers also inherit its limitations. The first of these is a lack of variety in terms of weaponry: there's only so much you can do with Phasers and Photon Torpedos. The second involves an unwieldy control system where tasks like energy allocation can rapidly become a pain in the proverbial, particularly in the heat of combat. SFA screams out for a customisable set of ship system configurations which can be quickly and easily loaded when the need arises. The combat sim of SFA also lacks multiple viewpoints, which means you often have to pull a U-turn to see how close your pur-

Simulated missions

Starfleet Academy features a very hot-looking space-combat engine.

Special preview

Blade Runner

Genre: *Adventure*
From: *Virgin (02) 9417 1322*
Expected release date: *Nov/Dec 1997*

Blade Runner is arguably the greatest science fiction movie ever made. Based on Philip K. Dick's cult novel, *Do Androids Dream of Electric Sheep*, this cult classic presents a fantastic vision of a nightmarish future. Now Westwood Studios has created a real-time 3D adventure that takes inspiration from the characters, storyline and aesthetic milieu of the movie, but comes up with a whole new world of challenges and danger.

You are Blade Runner, Ray McCoy, engaged in an adventure uniquely your own. But what you don't know each time you play is whether you — or anyone else — is human or Replicant. Who is good and who is malevolent? In this game — as in life — it's hard to tell, and nothing is obvious. It is this built-in ambiguity that creates such a sense of delicious suspense.

You can choose to hunt down rogue Replicants or become a sympathiser and help them track down the DNA data that will extend their life span. A game of pursuit and evasion where the line between the hunters and the hunted is a fine one, Westwood's Blade Runner will boast all the imagination, suspense, excitement, visual splendour and enduring popularity of a truly great movie.

While the Los Angeles of 2019 and many of its residents are drawn from the movie *Blade Runner*, the game's action explodes beyond that of the film, while sacrificing none of the suspense. As events unfold, players familiar with the film will catch glimpses of their favourite moments, as well as terrifying new twists that keep the action fresh and unpredictable.

Much of the game's edge-of-the-seat thrills are derived from the use of sophisticated, goal-oriented artificial intelligence in creating the cast of virtual actors. Each potential ally or foe has free will and an unpredictable agenda. Because characters don't follow set scripts, they are not static but rather spontaneous and challenging opponents worthy of extended play.

At the same time, state-of-the-art optical motion capture and real-time playback of characters, with tens of thousands of polygons, bring startling realism to the atmosphere of this 3D game environment. Blade Runner will also include use of the original Vangelis music score and voice-overs of the characters by the original film cast. The revolutionary game engine creates a new game each time you begin.

Rest assured that *PC User* will have a full review very shortly.

by Julian Schoffel

Blade Runner is a new adventure game based on the movie of the same name. The visuals are striking to say the least!

Westwood's new epic adventure title, Blade Runner, successfully recreates the broody ambience of the movie.

suers are. The final glaring reality which may leave many players unsatisfied is the fact that all the missions are simulated. Knowing that the worst you can get from an unsuccessful mission is a pass or fail kind of takes the fun out of space combat. It would have been nice if Interplay had included a few real missions where failure meant taking a one way trip to that great captain's chair in the sky.

Still, SFA does manage to provide a very convincing Star Trek feel and fans won't want to miss it for this fact alone. The multiplayer features (serial, modem and IPX network) should also give the game added longevity. But somehow I came away from Starfleet Academy with a sense that the PC gaming equivalent of the Trekie 'Holy Grail' still lies out there somewhere unclaimed. Perhaps Interplay will grab it with their next title, because as sure as the sun will rise tomorrow, you can bet there'll be a sequel.

Turn-based strategy

Warlords III

Over the years the Warlords strategy series from SSG has built up a large and very loyal following. While the games were never strong on glossy visuals and epic soundtracks, they delivered in the only area that really counts: gameplay. Warlords III (W3), the newest instalment, marks a continuation of SSG's focus on substance over style.

It's ironic that the proliferation of real-time strategy titles has made the older style turn-based W3 seem like a breath of fresh air. While the graphics of W3 are no match for Dark Reign (or even Warcraft II for that matter), they are by no means shabby. High resolution world maps and lovely hand-painted scenes scattered throughout W3 give it a defini-

Top 5 Internet games

Title	From	URL	System requirements	Description	Overall value
Ultima Online	Origin	http://www.owo.com	P133, 16Mb RAM, quad-speed CD-ROM drive, 261Mb hard disk space, 1Mb PCI SVGA graphics card, SLIP/PPP Internet connection, 32-bit TCP/IP stack, 14.4bps modem, Windows 95	A vast and detailed online RPG with almost unlimited potential. While the final game has just been released in the US, it is not currently available anywhere else. Time to start petitioning EA people!	★★★★★
SubSpace	Virgin Interactive Entertainment	http://subspace.vie.com	486DX2/50, 8Mb RAM, 1Mb PCI SVGA graphics card, SLIP/PPP Internet connection, 32-bit TCP/IP stack, 14.4bps modem, Windows 95	SubSpace is as fun as it gets! Meet players from all over the world . . . and then kill them.	★★★★½
Meridian 59	3do	http://meridian.3do.com/meridian	486DX2/66, 8Mb RAM, SLIP/PPP Internet connection, 32-bit TCP/IP stack, 14.4bps modem, Windows 95	While Meridian 59 isn't as audio-visually sophisticated as titles like UO or Diablo, it still offers incredibly immersive and addictive gameplay.	★★★★½
X-Wing vs. TIE Fighter	LucasArts	http://www.lucasarts.com	P90, 16Mb RAM, 1Mb PCI SVGA graphics card, SLIP/PPP Internet connection, 32-bit TCP/IP stack, 28.8bps modem, Windows 95	After suffering from a few teething problems, subsequent patches have made the Internet component of XvT quite playable via Microsoft's Gaming Zone.	★★★½
Quake	iD Software	http://www.idsoftware.com	P75, 16Mb RAM, double-speed CD-ROM drive, 40Mb hard disk space, 1Mb PCI SVGA graphics card, SLIP/PPP Internet connection, 32-bit TCP/IP stack, 14.4bps modem, Windows 95 or DOS 5.0	I know, I know, this is the second time Quake has appeared in this 'best of' list . . . but hey, it's still one of the most popular Internet games on the planet, so I can't leave it out.	★★★★★

tive style reminiscent of PC gaming in the early '90s.

W3 has the player waging war across a vast expanse of terrain. In order to succeed you must make good use of the dozens of military units at your disposal and effectively manage your resources. Diplomacy will also play a large part in the game and may make the difference between fighting one opponent at a time or being beset on all sides by a united enemy. The key to W3 is building up a balanced force composed of both weak and strong units. Trying to focus solely on expensive, more experienced units will soon leave you without enough men to defend newly won territories against counter-attacks.

W3 is all about formulating far-sighted strategy and tactics. Anyone who buys it expecting the instant adrenalised combat action found in contemporary real-time strategy games will be sadly disappointed: all of the combat in W3 is automated. In W3 the emphasis is on creating a successful strategy, rather than executing it on the battlefield. In this way I could probably draw an analogy between W3 and cooking Thai food: while amassing the authentic Thai ingredients (fresh coriander, basil, coconut milk, fish sauce, chillies etc) takes time, actually cooking it generally only takes a couple of minutes — but damn it tastes good!

W3 allows the player to partake in a massive campaign or engage in randomly generated standalone scenarios. The game also features provisions for modem and network play, with the Red Orb Internet server providing a forum for multiplayer competitions.

On the downside, the unit vectoring system of W3 means that troops can be moved between friendly castles in only two turns, regardless of terrain. This clashes dreadfully with the attempts at realism so carefully contrived for the rest of the game. However, SSG has now released a patch which may solve this problem, along with a few other bugs. ❑

Warlords III

Genre: Strategy
Classification: G8+
Graphics: ★★★
Sound: ★★★
Gameplay: ★★★★
Overall value: ★★★★

System requirements: P75, 16Mb RAM, 4x CD-ROM drive, SVGA graphics card, Windows 95
From: Strategic Studies Group
Distributor: Dataflow (02) 9417 9710
List price: $89.95

Automated combat

While the visuals of Warlords III lack the sophistication of other contemporary titles, gameplay is spot on.

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Accounting update

Reviews

Helen Bradley brushes up on her bookkeeping skills with the latest versions of M.Y.O.B., QuickBooks PRO and Sterling.

M.Y.O.B. 7.0

M.Y.O.B. 7.0 is a fully integrated Windows 95 and 3.1 accounting package which includes sales, purchases, general ledger, inventory and payroll. We reviewed the previous version (M.Y.O.B. 6) in May this year and it was then the best overall value product.

M.Y.O.B. now installs off either the supplied CD or 3.5in disks and does this quickly and easily. Unfortunately, upgrading data from older versions requires you to locate the old files and then find your new M.Y.O.B. directory and type in a filename for your data. While the manual explains the process in detail, you can be excused for wondering why this process isn't more automated.

M.Y.O.B. 7.0

System requirements: Windows 95 or 3.1, 386 or better, 4Mb RAM (8Mb recommended), 10Mb free disk space, VGA monitor, mouse, soundcard and modem optional

Support: 60 days free on registration; ongoing support and upgrade programs available

From: Data-Tech Software (02) 9770 9000; http://www.datatech.com.au

List price: $399 ($525 with Payroll); $10 test drive trial

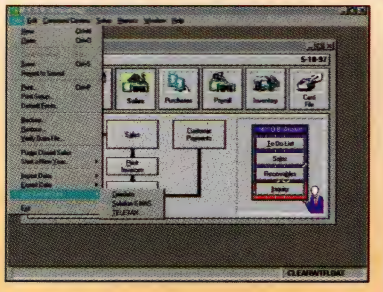
Version 7.0 of M.Y.O.B. addresses, in part, one significant criticism of M.Y.O.B 6.0 — it didn't save your work as you entered it and instead required you to save it yourself as you exit the program. While this is still the case, you can now use the Auto-Save feature to have M.Y.O.B. automatically save your work on a regular basis. If you have a power failure or your computer crashes, you'll still lose work, but not as much as you might have in the past.

The other improvements to the program largely centre around the Payroll module. There's a new Group Certificate Assistant to help you produce Group Certificates on plain or continuous paper and it also creates the file you need to send to the ATO and the disk submission form. There's the ability to choose individually the balances of which entitlements you'll carry forward from one year to the next, and there's support for multiple superannuation funds. The Pay Advice slips are now customisable and you can choose in the Payroll Categories setup whether or not an entitlement, such as annual leave and long service leave, or an employer expense, such as superannuation, appears on your pay advice slips.

The other significant improvement to the program is in the area of interfacing with your accountant. You can now export to TELETAX as well as CeeData and Solution 6 MAS and these export modes are grouped together as options under Accountant Link on the File menu.

The program has a new cheque format to comply with the requirements of the Australian Payments Clearing Association and you can now alter the terms for each individual invoice or purchase order.

New export formats



M.Y.O.B. now offers you the choice of three export formats for sending copies of your data to your accountant.

While creating the actual M.Y.O.B. data file is a simple process, the new 'Easy Setup Assistant' hasn't made setting up your purchases and sales accounts quite as easy as its name might suggest. You're warned if you create an 'out of balance' situation in setting up your Sales and Purchases accounts, but there are no suggestions about how to fix it and the program doesn't offer to do it for you. The program still allows you to post invoice amounts to inappropriate accounts (Expense, Asset or Liability) and doesn't warn you of the potential problems.

M.Y.O.B.'s offered ability to save your reports in HTML text format sounds a lot better than it really is. In reality, you'll need to import this text file into an HTML editor and format it before you can do anything meaningful with it.

M.Y.O.B. is a sound product. It continues to impress with its ease of use, integration, sheer breadth of features and the overall consistency of

all its modules. This said, it isn't a perfect product and you'll find parts of other programs are more impressive than the corresponding M.Y.O.B. offering. However, M.Y.O.B. is still a winner on overall value, so if you're in the market for a small business accounting package, then this Australian owned and made product should be on your short list.

QuickBooks PRO 5.0

Like M.Y.O.B., we last reviewed QuickBooks' previous version (version 4.0) in May this year. Version 5.0 contains some significant cosmetic changes to the program, the most immediately obvious being the flowchart-type Navigator screen (see screenshot). This is similar to the offerings in other programs and makes the process of completing tasks more apparent. You can still access tasks from the buttons on the toolbar — the Navigator just offers you a more visual way of selecting these options.

The second significant change to the program is the ability to fully customise forms. In the past you could select the fields to appear on your forms but not their placement. Now, like its competitors, QuickBooks offers the ability to change the layout of your form using the Layout Designer; you can zoom in and out in this screen and there's a multi-level undo if you make a mistake. On the Reports screen you can resize column widths on reports and if you right-click on a report item you can alter its font size (and the size of all related items), making it easier to see details on complex reports.

Invoice and Purchase Order layouts can now be selected on-the-fly and you can choose from a range of in-built and custom designed invoice formats; if none suit, select customise and create a format on-the-fly. You can also add longer paragraph style descriptions for the products and services you sell, which should make the program more attractive to the service industry and professionals.

Another simple but handy improvement is the ability to hide inactive customers, suppliers and employees; they won't clutter your screen but you can still view their information.

One impressive addition is the accountant interface. You can now prepare a disk copy of your accounts for your accountant and hand this to them and keep working on your accounts while they review your figures. Your accountant can both review and edit your data, making year end adjusting entries, and when the file is returned to you, the adjustments can be imported into your current data. However, QuickBooks lacks M.Y.O.B.'s ability to export data in any format supported by programs such as CeeData or Solution 6, which are the programs your accountant uses to prepare your tax return.

QuickBooks is supplied on a CD-ROM and 3.5in disks, and it installed faultlessly. Like M.Y.O.B. it continues to be compatible with Windows 3.1. The program will recognise old data files when you try to open them and steps you through backing up the data files before updating them for you. This process is more impressive than M.Y.O.B.'s offerings.

Unfortunately, nothing has yet been done about streamlining the QuickBooks program setup. You choose between setting up only minimal details or completing a complex and detailed interview that will take anything upwards of an hour and still doesn't allow you to delete unwanted accounts from your chart of accounts — you have to do this later.

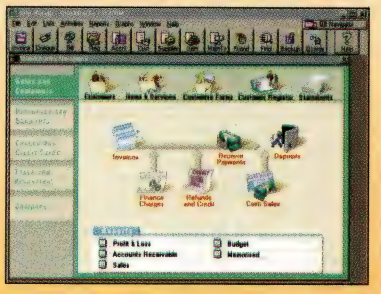
The Show Me video clips and Audio advice buttons make obtaining help and information about tasks quick and easy to obtain and in a format that doesn't require you to read screens of information.

It is heartening to see the improvements made to QuickBooks in this upgrade. If the new features are ones you have been hankering for, then the cost of upgrading represents real value for money. If you're looking at an accounting package for your business, then QuickBooks is a worthy challenger to M.Y.O.B. for your software dollar.

QuickBooks PRO 5.0

System requirements: Windows 95 or 3.1, 486 or higher PC, 8Mb RAM (16Mb RAM recommended), 3.5 in FDD or CD-ROM, 32.1Mb free disk space, 256-colour VGA monitor, mouse
Support: 30 days free on registration, 30-day money back guarantee. Ongoing support programs available.
From: Intuit (02) 9562 7922; http://www.intuit.com
List price: $399.95 QuickBooks 5 ($499.95 QuickBooks 5+ QuickPayroll 3 not reviewed)

Flowchart modules



The new Navigator screen places a process flowchart on your QuickBooks screen for each of the program's main modules.

Sterling for Windows 3

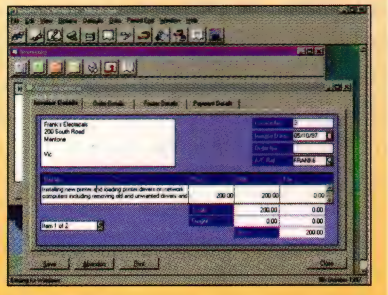
Sterling 3 belongs to the Solution 6 range of software, which is a leading name in accountant's accounting and tax preparation software. The program ships on 3.5in floppy disks and installed faultlessly. On loading the program you must enter a serial number and activation key from inside the cover of the manual and then you're given the opportunity to create a data file, which involves little more

SOHO accounting software compared

	M.Y.O.B. 7.0	QuickBooks 5.0	Sterling 3	Pastel SOHO**
Setup	★★★★	★★★★	★★★	★★★
General ledger	★★★★ ½	★★★ ½	★★★ ½	★★★
Payroll	★★★ ½	★★★★*	N/A	★★★★
Inventory	★★★★ ½	★★★★	★★★ ½	★★★
Invoicing	★★★★ ½	★★★★	★★★ ½	★★★ ½
Reporting	★★★★	★★★★	★★★★	★★★ ½
Accountant interface	★★★★ ½	★★★★	★★★	★★★★
Help	★★★★	★★★★ ½	★★★ ½	★★★
Overall value	★★★★ ½	★★★★	★★★ ½	★★★ ½

*Score for QuickPayroll 2 as at May 1997.
**Reviewed May 1997.

Multi-line invoices



Sterling's service invoices allow you to create multi-line entries and post them to individual General Ledger accounts.

than entering a company name and address and identifying the current financial year.

The main screen is an extremely ugly representation of the Solution 6 logo over the top of a messy pattern of colour, which thankfully can be turned off or replaced by a BMP file of your choice. A row of icons along the top of the screen and the menu complete the interface.

Unlike other SOHO accounting programs, Sterling makes no attempt to help you through the process of setting up your opening balances and customers. Instead you're forced to work through the manual, stepping backwards and forwards from section to section to complete tasks.

Setting up and using this program is not for the faint-hearted. There's no sample company data to use to familiarise yourself with the program and there are terms used that are not entirely familiar in this context, such as the Criteria and Swap buttons in the Customers dialogue box. You'll be forced to the manual or the Help screens to understand what they mean and how to use them.

This said, the program does allow multi-user operation with the ability to limit access rights for individual users. Its modules include sales, purchase and general ledger and stock control, and you can set up and run multiple companies and merge the data from them into a parent company to allow group reports to be prepared. You have a choice of completing sales orders, product invoices or service invoices for your customers, and there are separate credit note facilities for each. Like a lot of this program it's the variety of choices and the detail available for each that may overwhelm the new user.

Service invoices have descriptions that wrap multiple lines and you can choose not to post invoices so they can be added to later. This way you could use the program for a business with a small number of customers, which records sales or service information over a period of time and only sends out periodical invoices.

Unlike many SOHO accounting packages, Sterling requires you to complete month end processing, which involves a number of steps before you can roll over to a new month. There is a similar, and more complicated, process to be completed at year end.

Sterling offers over 70 in-built reports and many of these are fully customisable, as are the other Sterling forms, such as invoices and purchase orders. In addition, using the Layout Editor, you can create your own layouts for forms and reports and place fields and text as required on the page.

Sterling offers you the ability to export your data in a format that can be read by the Solution 6 MAS package that many accountants use. There is a Wizard to step you through the process of creating a floppy disk copy of your accounts and a letter for your accountant.

If you're looking for a fast, simple to use and flexible accounting package, then Sterling may not be for you. However, if you already have a commitment to Sterling because you're using an earlier version or if your accountant suggests you use this program because of its ability to interface with Solution 6 MAS, then this product is a worthwhile option. In addition, the Software Developer's Kit (available to dealers) means that a programmer can adapt Sterling to your organisation's individual needs. This level of potential customisation may put Sterling ahead of other products in its class and higher up your accounting software shortlist. ❑

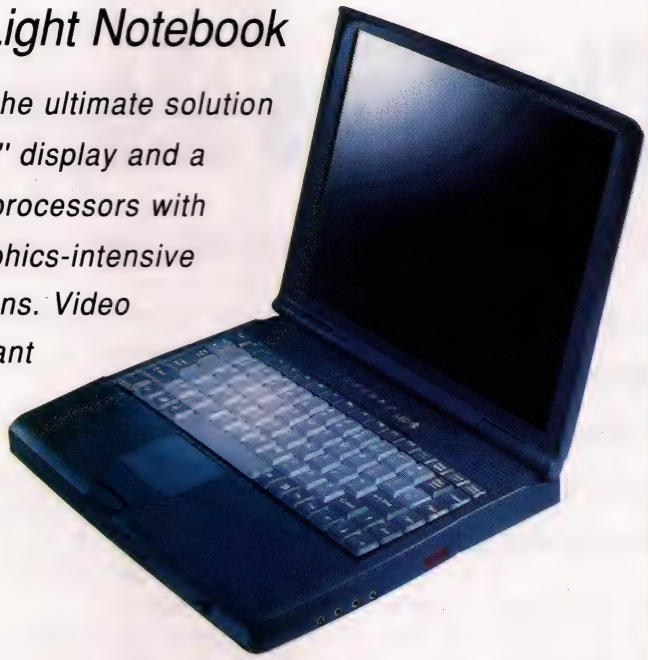
Sterling for Windows 3

System requirements: Windows 3.1 or later, 386SX or better, 4Mb RAM (8Mb RAM recommended), 3.5 in FDD, 10Mb free hard disk space, VGA monitor, mouse
Support: 30 days free on registration. Ongoing support program available.
From: Solution 6 1800 676 661 or (02) 9391 0666; http://www.solution6.com.au
List price: $499

Measure Up

The Slim and Incredibly Light Notebook

The LEO DESIGNote 6000 series is the ultimate solution for those on the go. Featuring a 13.3" display and a choice of high-speed Intel Pentium® processors with MMX™ technology, it's made for graphics-intensive computing. Give stunning presentations. Video Conference. Or just capture the brilliant view available on the Net. Power, speed, and revolutionary multimedia, it's exactly what you need when you know you're going places!



- Pentium® Processor with MMX™ technology 166/200/233 MHz
- 13.3" colour DSTN or TFT SVGA display
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- A mere 2.4kg & 38.5mm profile

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DESIGNote 6000

Top 5 Christmas shopping mistakes

Buyer's tips

Consumer Enquirer's mailbag usually rises faster just after Christmas, so John Hilvert reviews the problems to watch for.

The main trap at Christmas time is that it is one of the few periods where vendors have an obvious edge over buyers. You have only so many shopping days left, right?

If you can arrange it, avoid buying a major system for Christmas. Bargaining and clarifying what you want is difficult because there are many others that want to buy — indiscriminately.

However, if you are already committed to getting something for your family or friends this Christmas, please try to avoid these five mistakes.

1. Deciding on a system with your family in tow

There's something touching about bringing your family in to check out a PC you want to bring home for Christmas. It can also lead you into expensive mistakes.

It's hard getting a reasonable hearing from a salesman during the Christmas shopping period. Bringing your partner and progenies can cut into that important thinking and negotiating time. When you bring your family in, it conveys to the salesperson you've either made your mind up to buy from them — or you need to get your family's approval.

By all means, consult with your family about their requirements, but avoid bringing them into the store — until you have definitely decided to buy.

2. Shopping at midday

It's hard enough to get a salesperson's attention during the Christmas shopping period — trying to do a deal during the peak 12 to 2pm period is only for the desperate or dumb.

Apart from the chaos of other shoppers in the store, the pressure to truncate discussion means you can forget to cover an important requirement.

If you just want a peripheral, such as a printer or scanner, perhaps you can risk it. Never close a deal for a PC during the mad Christmas lunch hour rush.

3. Visiting before phoning

Time is short enough during December without hitting on a store when its most

PC Pulse

Real clone prices

Clone PCs tend to be locally assembled with prices set at about 20 to 30 per cent below national brands to make them attractive.

They are promoted cheaply in user group publications or classified advertising sections.

In October, Sydney's advertised prices for each level of systems were as follows:

CPU	High	Low	Average
Pentium 166 MMX	$1890	$1289	$1627
Pentium 200 MMX	$2699	$1395	$1822
Pentium 233 MMX	$3299	$1730	$2401
Pentium II 233	$3459	$2549	$2860
Pentium II 266	$3995	$2710	$3365
Pentium II 300	$3999	$3795	$3897

These are prices of the packages including screens and multimedia. The further up the scale you go, the better the peripherals and add-ons.

Typically a Pentium 166 MMX system will come with 16Mb of RAM, 2Mb of video RAM, a 2Gb drive, 15in display and multimedia.

At the top end a Pentium II system can come with as much as 64Mb of fast SDRAM, a 4Mb video card, 6.4Gb hard drive, 17in display, multimedia with an AWE64 soundcard, as well as bonuses such as printers, scanners, faxes and software.

Top-selling products

The top selling models for the July/August period were:

Desktop PCs

1. IBM Aptiva 2161 E64 (166)
2. IBM Aptiva 2161 E84 (166 MMX)
3. Compaq Presario 2200 (166/686)
4. Bluestar BSG 320 (166/586)
5. Acer Entra 2966 (200)

Notebook PCs

1. Compaq Presario 1060 (120)
2. Toshiba Satellite 220 CDS (133)
3. Compaq Presario 1082 (166 MMX)
4. IBM Thinkpad 365XD (133MHz)
5. Toshiba Satellite Pro 430 CDT (120MHz)

Printers

1. Canon BJC210
2. Hewlett-Packard DeskJet 670C
3. Canon BJC 4200
4. Lexmark Jetwriter 1020
5. Epson Stylus Color 600

These figures are courtesy of GfK marketing services Australia, based on actual unit sales from retail audit figures supplied by stores including Harvey Norman, Brashs, David Jones, Myer, Radio Rentals and Vox.

Auction prices

Perhaps you want to estimate the value of your current system for insurance purposes? You might want to know how much you might sell it for. Maybe you want to try a flutter on the second-hand or auction market.Each month we clue you in on what money is really changing hands for the most common items.These are the low and high prices fetched for second-hand PCs and peripherals during September '97 at Hymans computer auctions.These prices are the net return to the vendor. Typical sale prices (buyer's premiums) may be as much as 20 per cent on top of the these.

Desktops

CPU	Detail	Low	High
386DX	386DX/33, 8Mb RAM, 120Mb HDD, 1.44Mb FDD, 14in VGA mon.	$40	$70
486DX	486DX/33, 8Mb RAM, 200Mb HDD, 1.44Mb FDD, 14in VGA mon.	$80	$120
486DX2	486DX2/66, 8Mb RAM, 270Mb HDD, 1.44Mb FDD, 15in SVGA mon.	$275	$375
486DX4	486DX4/100, 8Mb RAM, 500Mb HDD, 1.44Mb FDD, 14in SVGA mon.	$325	$425
P60	P60, 8Mb RAM, 420Mb HDD, 1.44Mb FDD, 15in SVGA mon.	$375	$450
P75	P75, 16Mb RAM, 420Mb HDD, 1.44Mb FDD, 15in SVGA mon.	$400	$500
P100	P100, 16Mb RAM, 800Mb HDD, 1.44Mb FDD, 15in SVGA mon.	$450	$550
P120	P120, 16Mb RAM, 1Gb HDD, 1.44Mb FDD, 15in SVGA mon.	$600	$700

Printers

Printers	Detail	Low	High
HP	DeskJet	$40	$60
HP	DeskJet 340	$125	$200
HP	LaserJet series II	$75	$125
HP	LaserJet series III	$125	$200
HP	LaserJet Series IIID	$150	$250
HP	LaserJet Series IIISi	$225	$300
HP	LaserJet 4	$200	$300
HP	LaserJet 4M	$375	$600
Gestetner	GLX800 Laser	$30	$80
Canon	LBP8111 Laser	$100	$150

Printers	Detail	Low	High
Canon	LBP8-IV Laser	$150	$250
Canon	BJC 800 InkJet	$100	$150
Canon	BJ 330 BubbleJet	$40	$70
Canon	BJ 210C BubbleJet	$70	$110
Canon	BJ 200 BubbleJet	$50	$80
Canon	BJ 10SX BubbleJet	$30	$50
Epson	Stylus Pro Color inkjet	$60	$110
IBM	4019 Laser	$50	$80
IBM	4029 Laser	$80	$120

knowledgeable salesman happens to be out or they don't have the equipment you want in stock.

Phone the stores you are interested in to get a feel of whether they have what you want, preferably at the price you want.

Make an appointment to meet a salesman and keep it.

4. Ignoring market cycles and basic research

You want heartbreak? How about settling on a Pentium 233MHz MMX system on 18 December for $2499 and seeing the same item available as a Pentium II 233MHz system for $2299 a month later?

The PC market continues to experience extremely turbulent supply and demand cycles. Many stores tend to stock up in anticipation of the Christmas rush around October.

Meanwhile, the prices on items, such as CPUs and memory, continue to drop, partly because of world-wide over-supply of memory and Intel's wanting to deter its competition.

Few stores manage their cycle just right. Usually they have more of last month's stock on hand than they would prefer.

Christmas lets them move these long-in-the-tooth systems because shoppers are simply less focused during this time.

A discriminating purchaser should understand what systems are just about out of fashion and their going prices. They should be aware that non-MMX and IBM Cyrix systems are always cheaper — and may be a bargain, if priced right.

Shoppers should understand that pre-Christmas systems are routinely discounted by about 10 per cent during post Christmas sales.

The standard technique for dealing with this is to negotiate a better discount.

Try something like: ". . . look I'd like to buy your system but if I wait a month, I'll save myself about $200 — let's split the difference (throw in more memory, hard drive or a better soundcard/printer) and I'll be prepared to buy from you, right now."

5. Buying a no-name brand from a no-name store

Consumer heartbreak number one in our mailbag is always the lack of after sales support from dealers. Consumer heartbreak number two concerns systems — usually notebooks — that have patchy parts support.

Do not even think of buying a PC from a shop or business you know little about.

Watch out for stores that bundle software without proper certification, manuals or install disks. You could be inadvertently purchasing unauthorised software. What else might be bodgie about the system?

If price is an issue, use their price to bargain with a shop you feel more comfortable with. Should you inadvertently buy a lemon, good shops will replace your system or refund your money.

Likewise, take care with no-name notebook brands, especially during Christmas. They could be re-marked CPUs (older chips rebadged with their clock-speed boosted), misrepresented cache or a whole lot of other problems you really don't want to know about.

Even if they are okay, ask yourself where you'd go for support if your dealer closed up shop in the next 12 months? ❑

Upgrading guides

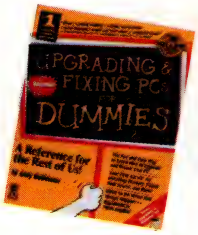
Books

Whether you're a solo beginner or leading a tech support team, Link Harris recommends a book that's right for you.

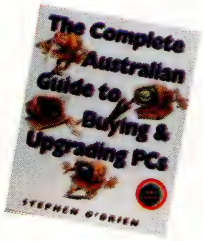
Upgrading & Fixing PCs for Dummies is a great companion for a novice PC user. It focuses on solutions to problems that besiege a beginner, as when a 'Non-system disk' message blocks bootup or cursor arrow keys make numbers. Although the level of humour in most Dummies books is pitched too high, tending to befuddle a beginner, this one has the right recipe. In contrast, *The Complete Australian Guide to Buying & Upgrading PCs*, by Stephen O'Brien explains much more of the 'why', as well as being a far better adviser for upgrading. Ignoring troubleshooting altogether, it gives a holistic treatment of PC applications and the hardware required to run them.

Upgrading PCs Illustrated, however, takes the prize for the best how-to book, covering both upgrading and troubleshooting. It's chock full of clear photos, a high point dulled by some captions being swapped around. Although *Rescued by Upgrading Your PC* is artfully presented, featuring full-colour illustrations, it suffers from some dated and misleading advice. No such suffering with *The Way Computer Graphics Works*, which gives glossy, non-mathematical explanations of the mathematical concepts behind all sorts of on-screen shenanigans.

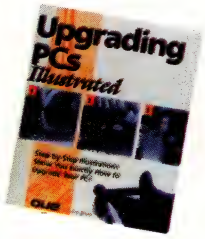
The two heavyweights tip in at close to 1400 pages each. This wealth of material is also a weakness, however, because topics tend to be scattered throughout each book — and it's often a slog to locate what you're looking for. Of the two, I prefered *The Complete PC Upgrade & Maintenance Guide* (seventh edition), which presents a practical approach to troubleshooting and upgrading that goes beyond the coverage in *Upgrading PCs Illustrated*. It includes two CD-ROMs: one, based on the book, holds key utilities and 32 video clips featuring author Mark Minasi; the other is an independent multimedia production on upgrading. By comparison, *Upgrading and Repairing PCs* (sixth edition) is a nerdy book, riddled with technical data — much of it historical, relating to bugs in early versions of DOS or specs for variations of the IBM XT and AT. Its CD-ROM holds Ziff-Davis' WinStone 97 and WinBench 97, 32-bit benchmark freeware that requires Windows 95 or better. New editions of both these heavies are imminent. ❑



You can apply most of the advice in *Upgrading & Fixing PCs for Dummies* without opening your toolbox.



***The Complete Australian Guide to Buying & Upgrading PCs* features a holistic approach on PC applications and hardware.**



***Upgrading PCs Illustrated* is easy to follow — although it's not for beginners.**

Upgrade books compared

Title	From	Price	Level	Readability	Overall value
Upgrading & Fixing PCs for Dummies (third edition)	WL	$39.95	Beg	★★★★★	★★★★★
The Complete Australian Guide to Buying & Upgrading PCs	PH	$39.95	Int	★★★★	★★★★★
Upgrading PCs Illustrated	PH	$59.95	Int	★★★★★	★★★★★
Rescued by Upgrading Your PC	WL	$49.95	Beg+	★★★★	★★★
The Way Computer Graphics Works	JW	$55.95	Beg	★★★★	★★★★
The Complete PC Upgrade & Maintenance Guide (eighth edition)	AWL	$119.95*	Int–Adv	★★★★	★★★★★
Upgrading and Repairing PCs (seventh edition)	PH	$99.95	Adv	★★★	★★★★

** Approx. RRP*
JW — Jacaranda Wiley (02) 9805 1100; WL — Woodslane (02) 9970 5111; AWL — Addison-Wesley Longman (03) 9697 0664; PH — Prentice Hall (02) 9454 2200

MicroGram Computers

PS/2 Switch Box

A manual push button switch box which switches a PS/2 keyboard, PS/2 mouse and VGA monitor between multiple computers.

Cat. No. 12044	**VGA Monitor/PS2 KB/Serial 4 Way**	$139
Cat. No. 12045	**VGA Monitor/PS2 KB/Serial 8 Way**	$239
Cat. No. 12046	**VGA Monitor/PS2 KB/Serial 12 Way**	$329

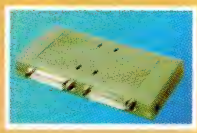
You can also switch a standard keyboard, mouse and VGA monitor.

Cat. No. 12047	**VGA Monitor/Kb/Serial P/B 4 Way**	$129
Cat. No. 12041	**VGA Monitor/Kb/Serial Rotary Sw 4 Way**	$99

Or switch just standard keyboard and monitor.

Cat. No. 12031	**Monitor/Kb Sw. box 4 Way**	$87

Automatic Parallel Switch Box



Connects 2 computers to 1 printer and automatically switches according to requirements. No external power supply is required. All connectors are DB25 female. A four way model is also available

Cat. No. 12013	**Switch Box Parallel 2 to 1 Auto**	$26
Cat. No. 12014	**Switch Box Parallel 4 to 1 Auto**	$51

Dual Exhaust Fan

Dissipate heat and keep the computer cool with a dual exhaust fan. The fans are attached to a plenum to exhaust hot air from inside the computer.

Cat. No. 8420	**Exhaust Fan Dual**	$45

Internal UPS & Power Supply

It's not just a UPS but also a 300W power supply. The UPS is actually built into a standard size power supply and the batteries and front panel occupy a 5.25in drive bay. The UPS is rated at 500VA. Apart from power failure, the UPS also protects against over voltage, under voltage, overload and DC short circuit. Optional software provides for automatic shutdown.

Cat. No. 8498	**UPS/Power Supply Internal 500VA/300W**	$429
Cat. No. 8499	**UPS/ Power Supply Internal RUPS S'ware**	$99

Web Excel 33600 bps Fax/Modem

Access the Internet from home, do your banking or send faxes to friends and associates. This high speed 33600 bps V34 class fax/modem comes bundled with SuperFax 6.0 software. Using almost any Windows-based application, any document can become a fax. Available in either external or internal models. Voice/fax/modem model also available.

Cat. No. 10079	**Fax/Modem 33.6 Web Excel External**	$140
Cat. No. 10078	**Fax/Modem 33.6 Web Excel Internal**	$120
Cat. No. 10082	**Fax/Modem/Voice 33.6 Web Excel Ext**	$150
Cat. No. 10083	**Fax/Modem/Voice 33.6 Web Excel Int**	$140

Hi- Scan Bar Code Readers

High resolution CCD scanners which feature multi-interface communication with RS-232C, Wand and Keyboard Emulation in one unit. Simply release the RJ-45 jack to change cables! Offering optical performance with a minium resolution of 0.125 mm & maximum reading distance of 20 mm it is possible to read high-density, laminated & acrylic-covered bar codes.

Cat. No. 8458	**Hi Scan Bar Code Reader KB Wedge**	$699

Also available, *Long Range* CCD bar code scanners which offer variable width and depth of field.

Cat. No. 8489	**CCD Bar Code Scanner Long Range KB**	$439

As well as our standard range.

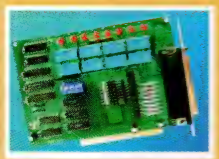
Cat. No.8196	**CCD Bar Code Scanner KB Wedge 80mm**	$359

Computer Security Kit

No software required. A small keypad mounts in a 3.5in bay which allows an access code to be entered. Two access codes distinguish the level of user. The floppy drive is automatically locked when accessed by the second user. Keyboard & mouse may be locked/unlocked at any time.

Cat. No. 8493	**Security Kit Hardware Access Lock**	$89

Industrial Control Cards



We have a range of industrial control cards including relay I/O input, digital I/O and A/D - D/A cards. Call to discuss your requirements for your particular application. The ACL7125 is a basic digital I/O card for the ISA bus & provides 8 relay actuators and 8 opto-isolated digital inputs. The ACL8111 is a multi-function, high performance, & general purpose data acquisition card designed to combine all the functions, such as A/D, D/A, D/O & D/I in a single board.

Cat. No. ACL7125	**Relay Output & Opto Digital Input**	$229
Cat. No. ACL8111	**Data Acquisition Card**	$495

Magnetic Card Reader - KB Wedge

A bi-directional magnetic stripe reader designed to be used with IBM XT, AT and PS/2 computers for credit authorization terminals, POS terminals, PC's & banking terminals. Requires no software modification, programming of I/O devices or additional power.

Cat. No. 8045	**Magnetic Card Reader - KB Wedge**	$365

Compact Multimedia FM Radio Receiver

A high quality FM stereo radio that simply plugs into a serial port while a stereo RCA cable connects to a sound card. An antenna also plugs into the unit. Fully clickable controls enable you to scan the frequencies from 87.5 to 108MHz, tune a particular station and name it as one of ten preset stations.

Cat. No. 3304	**Wizard Radio FM Radio Receiver**	$79

Serial Cards

We have a large range of serial cards providing either 1, 2, 4 or 8 ports. Our most popular and versatile single, dual and four port cards feature high speed 16550 UARTS, COM 1 to 8 and IRQ 3 to 15.

Cat. No. 2297	**1 Port RS232 16550 COM1-8, IRQ 3-15**	$75
Cat. No. 2239	**2 Port RS232 16550 COM 1-8 IRQ 3-15**	$99
Cat. No. 2326	**4 Port RS232 16550 COM 1-8 IRQ 3-15**	$295

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Cat. No. 2333	**Two Port 16650 Serial Card**	$149

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Cat. No. 11287	**Ethernet Hub Card 5 Port UTP**	$89

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What you need	User Level
Word 6.0, 7.0 or 97	Easy — Expert

Customising Word

Word processing

Helen Bradley shows you how to customise Word 97 to suit Australian conditions and also your own personal requirements.

Like many of the programs we use, Microsoft Word has its origins in the US where imperial measurements such as feet and inches are still used. In Australia we use the metric system (millimetres and centimetres) and have done so for over 20 years.

Word comes with default settings designed to suit the US market and one of the first things you should do on installing it is to alter these defaults so that it uses measurements and settings more appropriate to this country.

Measurements

The first step is to alter all Word 97's measurements to metric units. Do this by selecting Tools, Options, select the General tab and from the Measurement units list select Centimetres and click OK.

Default paper size

The default paper size for Word 97 is generally Letter size (21.59 x 27.94cm) which is shorter than the A4 paper that is commonly used in Australia. Having an incorrect choice of paper length may not be apparent if you're using cut sheet paper, but it is enough to ruin a print job if you're using continuous paper.

Selecting A4 paper is a two-step process:

Step 1: Select File, Page Setup and then the Paper Size tab and from the Paper Size list box select A4. This sets the paper size for the current document only.

Step 2: Select the Default button and answer Yes to the prompt to alter the paper size for all new documents based on the Normal template.

Documents that you have created in the past will not be altered by this change. So if necessary, the next time you open an older document, alter the paper size for it and save it to make the change.

This change also doesn't necessarily alter the paper size for documents not based on the Normal template. If you use other templates and if the paper size in them requires alteration, either open the template file itself or open a document based on the template. Then complete Steps 1 and 2 to change the paper size for each template that you use.

Template settings

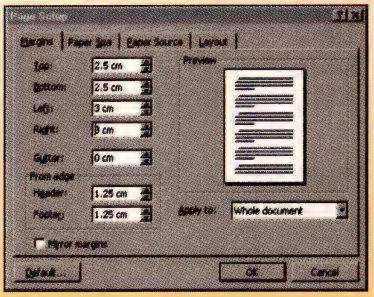


Figure 1a: Paper size and margins for all documents based on the Normal template can be altered using the Page Setup dialogue box in Word 97.

Default margins

If you have a look at Word's default margins (2.54cm and 3.17cm) you might be excused for wondering how they got to be such ungainly measurements. They are in fact 1in top and bottom and 1.5in left and right margins simply converted into centimetres. While there's nothing wrong with leaving them this way, they'll look much neater and be easier to work with if you set them to 2.5cm top and bottom and 3cm left and right (or some other simple measurement that suits your needs).

To change your margins, select File, Page Setup, select the Margins tab and set the margins to your desired size (see Figure 1a). Like you did when setting the paper size, make sure you select the Default button to change the margin settings for all new documents based on the Normal template. Other templates may also need updating if they use the more cumbersome measurements.

What is Word 97's normal.dot?

Every Word document you create is based on a template and, in most instances, this will be the template called normal.dot. Normal.dot is Word's default document template and it is selected whenever you choose to create a new blank document or select the New button on the toolbar.

This template contains the default settings for a Word document, the paper size, margins, font, styles, tab stops and a number of other settings. If you make a change to the default settings in normal.dot, these changes will affect every new document which you create based on this template. Some changes to normal.dot can be made by selecting the Default button in a dialogue box where this appears, and others can only be made by opening normal.dot, making the changes to that file and saving it.

Date formats

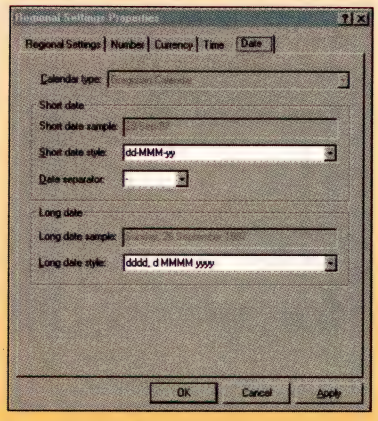


Figure 2a: The default date format for Word 97 and most Windows programs is controlled by the Regional Settings in Windows itself.

Changing defaults in Corel WordPerfect 7

To set the units of measure in WordPerfect select Edit, Preferences, select the Display icon and alter the Units of measure and Status/Ruler Bar display to the units required.

You can set the margins, default Paper size, language and other options for all new documents in WordPerfect by changing the Document's Initial Codes style for the current document and electing to use these as the program defaults. While this may appear to be a convoluted way of setting defaults, it does mean you can set a number of options from the one dialogue box.

To alter the default settings, select Format, Document, Initial Codes Style. Set the options you want, for example, Format, Page, Page Size for the paper size; Format, Margins to set margins; Format, Line, Tab Set to set tabs; Format, Font to set the font; and Tools, Language to specify the language for the spell checker to use. When you're finished, select the Use As Default check box and click OK. These settings will then be used for every new WordPerfect document created using the current template.

Default tabs

Like the margin measurements, the default tabs in your document will be set at half-inch (1.27cm) intervals. You can alter this to 1.25cm (or your preferred setting) by selecting Format, Tabs and altering the interval as required. Unfortunately, this will only alter the tab stops for the current document.

To alter the tab stops for all documents based on the current template, you'll need to open the template file and make your changes there. Use File, Open and select Files Of Type: Document Templates (*.DOT) and then select your template directory, which is probably MICROSOFT OFFICE\TEMPLATES, and select the file normal.dot. Make your changes and save and close this file. If you want to alter the default tab stops for other templates, repeat this process for every template that needs altering.

Dates

US dates are displayed in mm/dd/yy format, whereas dates in Australia are formatted dd/mm/yy. This date formatting is controlled by Windows, not the individual programs, so to alter it select Start, Settings, Control Panel, Regional Settings. From the Regional Settings tab select English (Australian) and then select the Date tab and choose an appropriate Short date format and Long date format from the list boxes and select OK (see Figure 2a). You may need to restart Windows before the changes take place.

You can insert the current date into a Word document by pressing the shortcut key Shift+Alt+D. The format of this date can be altered by selecting Insert, Date and Time, choose the format you want from the list, select the Default button, then click Yes and OK. This will alter the date format for the current template and you should repeat this for any other templates requiring alteration.

Language

Some words are spelled differently in the US to the way they are in Australia. If it's not correctly set up, Word will use a US dictionary to proof your work and will incorrectly flag some words as misspellings. To make sure your text is proofed using an Australian dictionary, set the default language to Australia.

To do this, select Tools, Language, Set Language and select English (Australian) and select Default. Answer Yes to the prompt to change the default language in the Normal template and select Close.

You will need to repeat this for any other templates that have an incorrect language setting.

Larger fonts

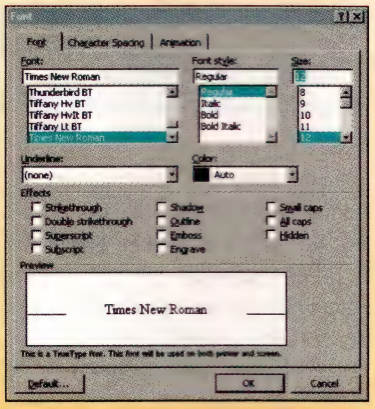


Figure 3a: Although not technically an Australian requirement, most users will want to increase the default font size to 12 point type.

What if I need US settings?

If you work in an organisation that creates work for another market, such as the US, sometimes you'll want your dates and spelling to reflect this. You can setup Word 97 to make the switch between countries easy. Start by setting up Word to reflect the settings you need most often so that the default template normal.dot contains these settings. Then create a new template with the settings for the country that you use less often.

For example, a template for creating documents to be used in the US would use the US date format, English (US) as the language, Letter paper and perhaps other settings particular to the special work you are doing.

To create a template in Word, select File, New and select the Template option button and click OK. Make the selections you require for language, paper size and any other special settings, and then save and close the template. Creating a template for a country means that you can

Changing defaults in Lotus WordPro 97

To alter the unit of measure that WordPro uses, select File, User Setup, WordPro Preferences, select the General tab and from the Measure In list box select the unit of measure you want to use and click OK to finish.

Like most word processing packages, in WordPro all new documents are based on a SmartMaster and in most cases this will be the default SmartMaster default.mwp (you will find this in your LOTUS\SMASTERS\WORDPRO directory). This SmartMaster contains the standard layout for a WordPro page and if you alter it then you'll alter the layout for all new documents created using this SmartMaster. To alter these default settings create a new document based on the default SmartMaster, make your changes and save the file over the top of the existing SmartMaster. Alternately you can simply open default.mwp itself, alter it and then save your changes.

Changes you can make to the default settings this way include paper size, margins, tabs, Default text font and language. Most alterations can be made by right-clicking on the editing screen and selecting Text Properties or Page Properties depending on the alterations required.

easily create documents for use in this country by selecting File, New and selecting that country's template as the basis of your document.

Font type and size

The default font and font size provided by Word 97 is Times New Roman, 10 point. Although this is not technically a customisation feature required because of Australian conditions, this font size is really too small and most users will want to increase the size to 11pt or 12pt (point).

To do this, select Format, Font and alter the font itself (if required) and the size, and select Default and answer Yes to the prompt to alter this for all new documents based on the Normal template (see Figure 3a).

Acknowledgment

Thank you to Jodie Miners of WA who provided the idea for this column.

D-I-Y Christmas cards

Design

It's time to start sending Christmas cards again! So Helen Bradley and Annette Castles have created some cost effective ideas for making your own personal cards.

What you need	User Level
Word 6.0, 7.0 or 97	Easy — Expert

The design

By folding a rectangular sheet of paper twice you can create a clever, free-standing card. Depending on whether you're designing for yourself, your family or your business, you can personalise it in unlimited ways. One of the advantages of this card is that you send the paper through the printer only once, saving time and wear and tear on your printer. However, you'll need to be careful when you're folding the card to make sure the graphic is centred in the borders when the card is 'closed'.

The card shown in Figure 1b uses a Reindeer graphic from Corel Gallery. This has been teamed with the decorative font Broad-Street for the main greeting. Other fonts that would have worked equally well include Penoir, Blippo and Impact. However, this graphic would look uncomfortable against, say, a more traditional Christmas font such as Vivaldi or Script-Roundhand. The sans serif font Arial has been used for the inside text. Broad-Street and Arial work well together because, although they're similar in shape, they contrast strongly in weight and style. For your card, choose a graphic from your own collection and a font that works with it and reflects your personality.

The lines around the card border mimic the weight of the lines in the graphic and stabilise the page. Heavier or lighter lines would have left the card unbalanced. Notice how the text on the front of the card lines up with the edge of the graphic and the text on the right is right-aligned. These strong edges to the text areas form an invisible frame inside the border and help keep the card balanced.

The finish

If you print your design in black on coloured card you'll find it's cost-effective. We used a pine green paper with a leather-grain finish. When folded, the card fits easily into a C5 envelope and you'll find these, along with a fabulous range of coloured papers, at any good stationery outlet.

Your database

One of the nicest things about this design is that it will interface with your customer database. You can replace the salutation with a merge field and merge print the cards. Not only does this allow you to personally address

Christmas wishes

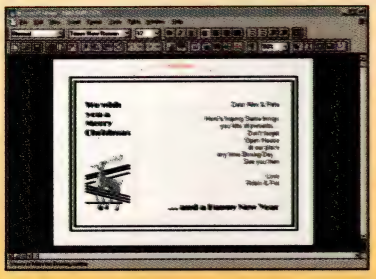


Figure 1b: This month's design project is a folded Christmas card that is smart, stylish and simple to create.

Set the elements

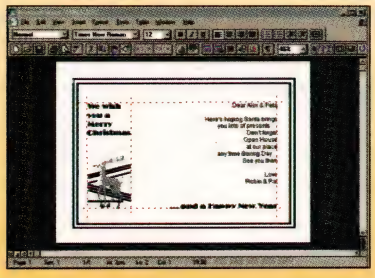


Figure 2b: All the elements on the page are tightly aligned; the 'invisible' lines are made visible here so you can see how they work.

each card, but you can easily mix and match the message in the text depending on whether you're sending the card to a friend or a client.

How it is done

Open a new document and using the Page Setup options in your word processor choose A4 size paper with a Landscape orientation. Set the margins around the page to 2cm top, bottom, left and right.

The borders are two unfilled rectangles drawn using the drawing toolbar. The borders of the rectangles are each 5pt weight, and the Fill has been set to None (Transparent). With snap to grid turned on it's a simple process to size the rectangles to fill the page and to position one inside the other.

The graphic is placed on the page using the word processor's Insert, Picture option. If you don't own Corel Gallery, then search through your own clipart collection for a suitable graphic to use. Position the graphic in the first third of the page; you'll want it where it can appear centred on the page when the card is folded.

The text is placed in two separate Text Boxes — one for the text on the left and one for the text on the right of the page. The text in the text box on the left of the page is left-aligned and the text in the right text box is right-aligned. Type your text (we used Broad-Street 23.5pt and Arial 20pt) and line the text boxes up so the distance from the edge to the nearest border is the same for each text box. Line the left edge of the graphic up with the left-most text box. Figure 2b shows you how each element lines up with the invisible lines on the page.

If you find an element of your document 'disappears', it will be caused by an object being layered over the top of another. Try selecting the object that's visible and, using one of the layering options such as Send Back or Send Behind Text, alter the layering to reveal the missing part of your document.

If you choose to merge print your document, use your word processor's Merge function to replace the salutation with the appropriate fields from your customer database.

Design file

The Christmas card from this tutorial in Word 6.0, 7.0 and 97 formats is available on this month's CD-ROM. See page 3 for details.

Australian PC User Offline

Naming cells

Spreadsheets

What you need	User Level
Excel 5.0, 7.0 or 97	Easy — Expert

Helen Bradley looks at some of the options for naming cells on a worksheet to save you time and help eliminate errors in formulae, printing and moving around.

What is a name?

Most spreadsheet packages allow you to name a cell or a range of cells and to refer to this cell or cells by the name you have given them. Consider the example in Figure 1c: if you calculate the Markup for the first item, you'll enter =B4*B7 in cell C7 and then you'll copy this formula down the column. Alternately, if you name cell B4 'Markup' then the formula in C7 can be written as =Markup*B7.

To name a single cell or a range of cells:

Step 1: Highlight the cell or cells to name.

Step 2: Select Insert, Name, Define. Excel will try and find a name for your cell and will often get it right by taking a text entry from an adjacent cell. Alter the proposed name in the Names In Workbook text box, if necessary, and click OK.

You can use any combination of characters for a name, but it must begin with a letter or an underscore and you may not use a space or a hyphen. Names are

Creating worksheet constants

You can create worksheet constants using names. These constants can be referred to by their name but they won't relate to any cell on a worksheet. To create a constant called Increase, select Insert, Name, Define and type Increase in the Name text box. In the Refers To text box type the value of the constant, for example, =.08 to make the Increase 8%. Select OK to continue. You can then refer to the constant Increase anywhere in your workbook just as you would any other named range.

Easier to remember

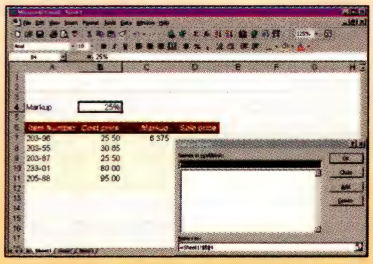


Figure 1c: If you name the cell containing the markup value, calling it Markup, you can refer to this name rather than the cell reference in formulae.

not case sensitive and the name 'Sales' is the same as the name 'SALES'.

Why use names?

Names make formulae easier to understand. For example, the formula =C6*C7 means very little but if you were to name each cell and use the names in your formula then LoanAmount*InterestRate would make a lot more sense.

Names are easier to remember and use than are cell references. If you need a name in a formula you can 'look up' the names available using Insert, Name, Paste and select a name from the list. This menu option is available anytime you are building or editing a formula, provided you have at least one named cell on your worksheet. Alternately, pressing F3 will bring up the Names list or you can click on the Names list on the toolbar, which you can see open in the top-left corner of Figure 2c.

You can redefine names and any formula using the name will automatically be recalculated to refer to the new range. So, if you have a lookup table named LookUpTable, and you add another two rows to the bottom of the table, you can redefine the name by selecting Insert, Name, Define and alter the range in the Refers To text box. Automatically all formulae in the worksheet that refer to the named range will now see the new, larger lookup table.

You should use range names to create databases, charts and print areas where you're likely to add or remove rows or columns within the area covered by the name. If you do this within an area covered by a name, then that named range will expand or contract accordingly. You won't have to alter the database, chart or print area as a result of your changes.

When you've created a name on a worksheet, the name will not be used in any existing formulae unless you specifically apply it. To do this, select Insert, Name, Apply and select the names you want to replace ranges in any formulae in your worksheet. Leave the Ignore Relative/Absolute check box checked, leave Use Row and Column Names checked if you want to use references to intersecting cells (see below) and click OK. Now the named ranges will replace all cell references in your formulae.

Moving using ranges

You can use names to move quickly around your workbook. The F5 (GoTo) key or Control+G brings up a list of names from which you can select the name to move to and click OK.

Easier printing with named ranges

If you have two areas of a sheet using names, you can create a button on the worksheet to move from one area of the worksheet to another, or you can create buttons to print varying areas of a large worksheet. In Figure 2c each of the buttons allows a separate named area of the worksheet to be printed. To create each of these buttons:

Step 1: Highlight and name each area of the worksheet that you want to print, leaving out the 'heading' columns A and B. In the budget worksheet the area C1:F22 has been named Quarter1, the area G1:J22 has been named Quarter2 etc.

Step 2: So that each area will print with the heading columns A and B, select File, Page Setup, select the Sheet tab and in the Print Titles area enter in the Columns To Repeat at left: $A:$B and click OK.

Step 3: Record a macro which uses the GoTo command (F5) to go to the area to print, for example, Quarter1, then sets the print area using File, Print Area, Set Print Area and then prints using File, Print, Selection and which finally removes the print area using File, Set Print Area, Cancel Print Area.

If you prefer, type this macro in using Tools, Macro, Macros, key in the Macro Name as PrintQuarter1 and from the Macros In list box select This Workbook, select Create and type in this macro text:

Listing names

You can paste a list of the names and ranges they refer to into a worksheet. To do this, move to a blank cell with plenty of blank cells below it and one free column to its right, and select Insert, Name, Paste, Paste List. You will get a two-column list with the names in the first column and the cells to which they refer to on their right.

Names in Lotus 1-2-3 97

You can name cells and ranges of cells in Lotus 1-2-3 by highlighting the cells to be named and then selecting Range, Name and typing a name for the range in the Name text box.

You can access the name list by pressing the F3 key and use these names in your formulae. Unfortunately, unlike Excel, in the type of worksheet shown in Figure 1c you'll need to use absolute range names in your formulae or they won't copy correctly. So, in the Lotus 1-2-3 equivalent of Figure 1c, cell C7 should be written as =$Markup*B7 so that the formula will copy correctly down the column.

The navigator at the top-left of the screen contains a list of names and you can use this to add names to your formulae or move to a named range. The F5 key is a Goto key in Lotus and will offer you any names on your worksheets as targets of your move.

Set print areas

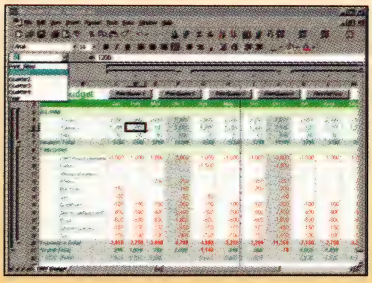


Figure 2c: Using a combination of named ranges, macros and buttons on your sheet you can make it easy to print different areas of a sheet.

```
Sub PrintQuarter1()
' Print Quarter1 of worksheet
   Application.Goto
Reference:="Quarter1"
   'ActiveSheet.PageSetup.PrintArea =
Selection
   ActiveSheet.PageSetup.PrintArea =
ActiveCell.CurrentRegion.Address
   Selection.PrintOut Copies:=1
   ActiveSheet.PageSetup.PrintArea = ""
   ActiveCell.Offset(0, 1).Select
End Sub
```

Step 3: Create a macro for each print area. You can record one for each print area or copy and paste the macro text altering any reference to Quarter1 or to a specific print area.

Step 4: Before you can add a button to your worksheet you'll need the Button tool on your toolbar. To add this, select View, Toolbars, Customize and select the Commands tab. In the Categories list select Forms and from the Commands list drag the Button command up onto the toolbar and click Close to finish.

Step 5: To add a button to your sheet, click the Button tool and drag a button in position on your sheet. From the Assign Macro list select the macro to run when the button is pressed (PrintQuarter1) and click OK. Alter the text on the button by right-clicking on it and changing the text to Print Quarter 1.

Step 6: Repeat Step 5 for every button you need on your worksheet.

Using ranges in formulae

You can name a group of cells using their column and row headings like those in Figure 3c with one command and use the resulting names in your formulae. Select the range including the row and column headings and select Insert, Name, Create. From the dialogue box choose to Create Names In: Top row and Left column (where the names appear) and click OK.

You can now use the names to create the totals for the worksheet. For example, the formula in cell B8 will be =sum(Income) as the name Income will have been created to refer to the range B4:B7.

When you have intersecting ranges such as North referring to B4:D4 and Expenses referring to C4:C7 you can use 'intersecting names' which are the cells at the intersection of two named ranges. For example, if you key into a cell =North Expenses, the cell will contain 10,000 the contents of the cell at the intersection of the row range named North and the column range named Expenses. To refer to an intersecting name use the row name, followed by a space and then the column name.

Named ranges across workbooks

In addition to naming cells in the current workbook, you can also refer to named cells in another workbook. For example, =Profit.xls!YearTotal can be entered in the current workbook and will contain the value from the cell named YearTotal in the file profit.xls. You can also refer to intersecting names, for example, =profit.xls!North

Names in Corel Quattro Pro 7

You can name cells and ranges of cells in Quattro Pro 7 by highlighting the cells to be named and then selecting Insert, Block Names and typing a name for the range in the Name text box.

Like Excel and Lotus you can access the name list by pressing the F3 key and use these names in your formulae. Like Lotus, in the type of worksheet shown in Figure 1c, you'll need to use absolute range names in your formulae or they won't copy correctly. So, in the Lotus 1-2-3 equivalent of Figure 1c, cell C7 should be written as =$Markup*B7.

The F5 (Goto) key works similarly in Quattro Pro as it does in Lotus 1-2-3 and there is a navigator at the top-left of the screen which contains a list of names that you can paste into formulae or use as the target of a Goto command.

To create a list of names and cells that they refer to, move to a blank area of your worksheet and select Insert, Block Names and select Output and click OK and Close.

Name cell group

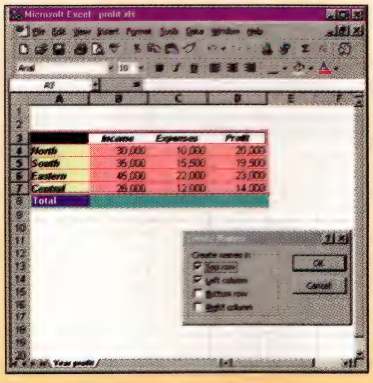


Figure 3c: Once you have named a group of cells you can use these names in formulae and refer to cells at the intersection of two names.

Spreadsheet files

You'll find the files used in this tutorial as examples on this month's CD-ROM. See page 3 for details.

profit.xls!Income will place the figure from the intersection of the named ranges North and Income in profit.xls in the current worksheet.

Worksheet level names

Names work at the level of the workbook so a range name is available to any sheet in a workbook. Sometimes, however, you may want to use the same name for a cell on a number of worksheets, for example, you may have a workbook of worksheets recording share information and want to name a cell on each sheet MarketPrice. To do this you'll need to create a sheet level name which you can do by adding the name of the worksheet and an exclamation mark before the range name. So this cell on sheet1 will be named sheet1!MarketPrice and if the worksheet is called BHP then the cell name will be BHP!MarketPrice.

When you're using the named range on the sheet where it is created then you don't have to prefix it with the sheet name and an exclamation mark. So to use the named cell Sheet1!MarketPrice in Sheet1 you only need refer to MarketPrice. To use that named cell on another worksheet you will need to prefix the name with the sheet name and the exclamation mark.

Cascading style sheets

Web Workshop

In a first of a series, Helen Bradley and John Hilvert look at what style sheets are, how to use them and some of the typographical options available for controlling layout of text.

What you need	User Level
Word processor Internet Web publishing access	Easy — Expert

Cascading style sheets allow Web publishers to create, for the Web, documents that have the look of their paper-based counterparts. Until now, to place text in a predetermined position on a page has been largely a hit or miss affair. HTML is a markup language, not a page layout language, and individual browsers have 'interpreted' this language in differing ways. Web designers are left frustrated and resorting to graphics to achieve effects that would be achievable in text in other programs. Even the more 'traditional' publishing options, such as line spacing and margins, have not been able to be achieved easily without somewhat cumbersome workarounds.

Style sheets offer a range of opportunities to control your page and site design and over the next months we will look at various aspects of style sheets. On the left of Figure 1d is a 'traditional' Web page using an H1 heading and standard body text. On the right is a page formatted using a style sheet showing some of the options achievable, such as indented paragraphs and reduction of the spacing around headings.

More style options

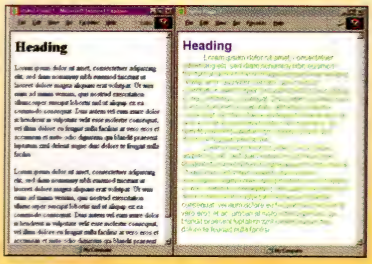


Figure 1d: The right-hand Web page shows some of the options achievable with style sheets as opposed to a traditional Web page (left).

HTML Source Box #1

(See Figure 1d, left-hand example)

```
<HTML>
<HEAD>
<TITLE> Styles Page 1</TITLE>
</HEAD>
<BODY>
<H1>Heading</H1>
<P>Lorem ipsum dolor sit amet...
</P>
<P>Lorem ipsum dolor sit amet...
</P>
</BODY>
</HTML>
```

What is a style

A style in HTML terms is similar to a style in a word processing package. It's a collection of attributes, such as font size, type, emphasis, line spacing, margins and alignment, that can be applied to text on a page.

Using a style to format text allows you to group a number of attributes together under a 'name' and to apply all these attributes to a piece of text using the style name rather than having to apply each formatting option individually.

What do you need?

Before you can view pages created using style sheets, you'll need a browser that supports them. Netscape Navigator 4 and Internet Explorer 3 onwards both support the use of style sheets in varying degrees. You'll find copies of each of these on this month's cover CD.

Why use styles?

Given that only a minority of Web users have style sheet-enabled browsers, you could be excused for wondering why you would use style sheets. The short answer is that style sheets are part of the future of the Web. Like any leading-edge function, it will take time for users to catch up but, in time, they will upgrade to compatible browsers and style sheets will be an important design tool to give them flexibility for viewing Web pages.

In the meantime, if you design your pages with style sheets and still ensure that they view cleanly in non-compatible browsers, there should be no issue with using them. People with non-compatible browsers won't know that they're viewing a page that is formatted with a style sheet — the page will look fine to them, and others will see your page formatted with the style sheet as you want them to see it.

You should be aware that although Navigator 4 and IE4 are style sheet-enabled, they are not 100 per cent compatible with the Cascading Style Sheets — Level 1 (CSS1) recommendation and they have incompatibilities between them. You can expect that future releases will be more closely compatible with the standard but for now, check your pages carefully in both browsers — the results may surprise you.

In this tutorial we have used the W3C's CSS1 recommended implementation of cascading style sheets. The resources list contains the Web address of this document and it's worthwhile studying it if you are using style sheets.

The advantages of styles

Styles are used primarily because they're convenient and allow you to apply a number of attributes in a single step rather than having to apply each individually. Styles reinforce consistency when you're working on a large document or a series of pages because you don't have to remember and apply all the attributes individually. Instead, you simply need remember the style name to format each paragraph as required.

Styles also help when you want to change your document. Simply by changing the definition of the style itself, every paragraph or piece of text formatted with that style will alter to the new definition without having to be individually edited.

In addition to the more 'traditional' benefits of styles, in HTML, styles allow you to achieve formatting options and layout effects that simply aren't otherwise available. They also reduce some of the mess of tags you'll have in your HTML source. You can place your style definitions in the document Head area and simply refer to the styles themselves in the Body area.

How good will it look?

If you're using style sheets, how your page looks will depend on how careful you are with its design. This is particularly the case if your viewer is using a non-style sheet compatible browser. You should check your page design in a range of compatible and non-compatible browsers and determine what your approach will be.

In some cases, the results will be acceptable and in others the results will be extremely ugly and tantamount to a visual disaster. If there are problems with your design then you will need to make some decisions about it. For example, you may opt for a style sheet and non-style sheet version of your site, much as others use frame and no frames versions, or you may revamp it so that the results are less visually offensive.

Because this is new technology, take care not to be seduced (at least unknowingly) by certain proprietary CSS approaches that abound particularly in relation to Dynamic HTML (see last month's column). Tags such as Netscape's <LAYER> tag are proprietary and best avoided. You should try to achieve the results you want using the CSS standards, not browser specific approaches. At this stage you'll find IE4's implementation is more faithful to HTML 4.0's CSS1 than is Communicator's. However, this could change and you are best to develop a familiarity with the standard and stick to it.

Embedded styles

In this month's column embedded styles have been used. These style definitions appear in the Head of the document (between the <HEAD>...</HEAD> tags).

HTML Source Box #2

(See Figure 1d, right-hand example and Figure 2d, left-hand example)

```
<HTML>
<HEAD>
<TITLE> Styles Page 2^/TITLE>
^STYLE>
<!—
H1        {font-size: 20 pt;
color: blue;
text-align: left}

BODY {font-family: "Arial";
color: green;
background: white}

.indent {text-indent: 1.25 cm;
margin-top: -.50 cm;}
—>
</STYLE>
</HEAD>
<BODY>
<H1>Heading</H1>
<P CLASS = indent>Lorem ipsum
dolor sit amet... </P>
<P CLASS = indent>Lorem ipsum
dolor sit amet... </P>
</BODY>
</HTML>
```

This is not the only way to apply styles and in later columns we will look at linking styles using an external style sheet and creating inline styles to meet 'one off' formatting needs.

The examples

HTML Source Box #1 shows the tags for the simple Web page on the left of Figure 1d. A heading tag <H1>...^/H1> has been used to format the heading and a paragraph tag <P> to format the two paragraphs of the document.

In contrast, the HTML Source Box #2 contains an embedded style sheet in the Head of the document (between the <HEAD>...</HEAD> tags). In this area are the Style tags <STYLE>...</STYLE> and in-between these opening and closing tags are the actual style rules. These style rules are placed inside a set of comment tags <!—...—> so that they won't be dis-

HTML Source Box #3

(See Figure 2d, right-hand example)

```
<HTML>
<HEAD>
<TITLE> Styles Page 3</TITLE>
<STYLE>
<!—
H1        {font-size: 20pt;
line-height: 22pt;
color: blue;
text-align: left}

BODY {font-family: "Arial";
color: gray;
font-size: 12pt;
line-height: 14pt;
background: white}

.indent {text-indent: 1.25cm;
margin-top: -.50cm;}
—>
</STYLE>
</HEAD>
<BODY>
<H1>Heading</H1>
<P CLASS = indent>Lorem ipsum dolor sit amet...
</P>
<P CLASS= indent>Lorem ipsum dolor sit amet...
</P>
</BODY>
</HTML>
```

played on the screen by older browsers that don't support styles.

The style definitions

In HTML Source Box #2 there are three style rules. The first one is:

```
H1        {font-size: 20pt; color: blue;
          text-align: left}
```

This style rule assigns various attributes to the H1 heading tag. The Heading style H1 here is called the Selector and its usual appearance is modified by the combination of properties and values that follow it. The property 'font-size' is given a value of 20pt so that the text will appear in the page as 20pt type.

Each property (font size, colour and text align) in a style rule is separated from its value by a colon (:) and each property/value combination is separated from the next with a semi-colon (;). The entire collection of property/value combinations for a particular selector is surrounded by a set of curly braces. In addition, you must have at least one space between the selector and the opening curly brace.

Easier to read

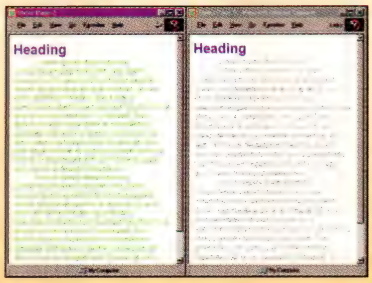


Figure 2d: The example on the right shows 12pt text with 14pt leading. In contrast to the left-hand example, this extra 2pt of leading assists readability.

The properties used in this month's HTML examples include:

color: you can specify a named colour for your text using one of the 16 colours that can be identified by name or by an RGB value representing the hexadecimal combinations of red, green and blue in the colour. For example, the property/value combination colour: silver and colour: #C0C0C0 both set text to the same light grey colour.

text-align: Allows you to specify the alignment for text. Values for this property include left, right, centre and justify.

font-family: Allows you to specify a font for your text. If the font is not available then the default font is used. Providing only one named font as we have done here limits your options for displaying text if this font is not available. A better option is to provide a variety of possible fonts from the list of fonts typically available on Macs and PCs and a 'catch all' generic font family name in case the others are not available. We'll cover this in next month's tips column.

background: The background property provides a colour for the page background. You can specify one of the 16 named colours or any other colour using its RGB value.

text-indent: This property specifies a paragraph indent which you can set in points (pt), inches (in), centimetres (cm), pixels (px), ems (em) or a percentage. It is not advisable to use ems as a measurement as this is not supported by IE4.

margin-top: Allows you to specify the top margin for the current element.

Style definitions

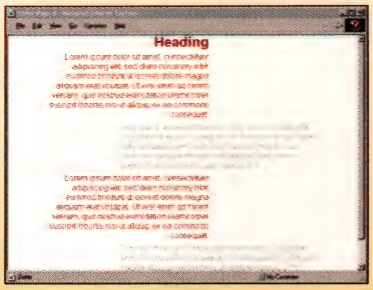


Figure 3d: Class Selectors have been used in this Web page, which are basically 'labels' identifying a particular Selector that can be applied to another HTML tag.

We've used this property in these examples to set the top margin setting for a paragraph. The possible measurements you can use for margin-top are the same as for the text-indent property. You can use negative values, as these examples show, to 'close' up the distance between paragraphs.

line-height: Is another way of specifying leading which is the 'extra' spacing between lines of text. In DTP, it is usual to add one or two points of extra spacing between lines of text to make it easier to read. As a line height value of zero will place two consecutive lines of text on top of each other, it is usual for the line height to be, at a minimum, the height of the text. The example on the right of Figure 2d, which uses the HTML Source from Box #3, shows 12pt text that has been set with a line height of 14pt. This extra 2pt of space assists readability. Contrast this to the example on the left which uses the source from Box #3 and has the default line-height for the browser being used. Similar units can be used for line-height values as are used for text-indent.

margin-right and **margin-left:** Allow you to specify the margin for an element. In the example in HTML Source Box #4, the margins of paragraphs have been set using percentages but any measurement that can be used for text-indent can be used here, too.

Style selectors, classes and layering

In HTML Source Box #2 two types of selectors have been used. The first type are the H1 and BODY selectors,

Naming colours

Sixteen colors can be referred to by name rather than their hexadecimal RGB values. These are the colors by name and their respective RGB values:

black	000000
gray	808080
silver	C0C0C0
white	FFFFFF
navy	000080
blue	0000FF
aqua	00FFFF
green	008000
olive	808000
lime	00FF00
teal	008080
red	FF0000
fuchsia	FF00FF
purple	800080
maroon	800000
yellow	FFFF00

where two standard HTML tags have had new definitions applied to them. The BODY definition specifies the new 'default' settings for the page, which can be overridden by other tags.

The H1 style takes (or inherits) properties such as colour and font style from the BODY tag. The differences between text formatted using the H1 tag and the remainder of text on the page will be in relation to those text attributes which the particular browser uses to display H1 text (which can be modified by inline styles or a style sheet). In this case, one of the BODY properties, text color (set to green), will be overridden whenever a H1 tag is used because the property 'color' for the H1 tag has been given a different value (blue) in the style rule for the H1 selector.

This layering or inheritance means that you should place the typical text attributes in the BODY definition and then alter only those that you need to for the other selectors.

In HTML Source Box #4, the selectors .left and .right are called Class Selectors and are effectively 'labels' identifying a particular Selector that can be applied to another HTML tag. The class called 'left' has been used to provide the margins, colour and alignment for the H1 formatted text, as well as two of the four paragraphs on the page. The other class selector 'right' has been used for the other two paragraphs (see Figure 3d).

Class selectors can be called anything you like but must be prefixed with a period. In all other respects, providing their definitions is similar to creating definitions for other selectors. The method of using a class selector is to add the attribute CLASS = to the tag and to refer to the particular class selector by name (not including its leading period). Hence the use in Source Box #4 of the tag <H1 CLASS=left> means that the style definitions for selector H1 and Class selector 'left' are both applied to this text. Later on in the document, the style definitions for the Class Selector 'left' have been applied to paragraph text (text inside a pair of <P>...</P> tags).

HTML files

The HTML files from this months column are on this month's CD-ROM. See page 3 for details.

Viewing HTML files

The styles used in this month's column are best viewed using Internet Explorer 4 and they're rendered less than ideally in Netscape 4.

More information

- The WWW3 consortium's Cascading Style Sheets Level 1 Specification: http://www.w3.org/TR/REC-CSS1-961217
- What can you do with style sheets? http://www.webreview.com/97/05/30/feature/tutorial.html
- This style sheet reference guide has good information on browser support: http://www.webreview.com/guides/style/mastergrid.html
- To see what can be achieved with style sheets (in under 10Kb) visit: http://www.microsoft.com/typography/css/gallery/4.htm
- This newsgroup provides a lively discussion of CSS: news:comp.infosystems.www.authoring.stylesheets

HTML Source Box #4

(See Figure 3d)

```
<HTML>
<HEAD>
<TITLE> Styles Page 4</TITLE>
<STYLE>
<!—
H1        {font-size: 20pt;
line-height: 18pt}

BODY {font-family: "Arial";
color: gray;
font-size: 12pt;
line-height: 14pt;
background: white}

.left {margin-left: 10%;
margin-right: 40%;
margin-top: -10pt;
color: maroon;
text-align: right}

.right {margin-left: 30%;
margin-right: 10%;
margin-top: -10pt;
text-align: left}
—>
</STYLE>
</HEAD>
<BODY>
<H1 CLASS = left>Heading</H1>
<P CLASS = left>Lorem ipsum dolor sit
amet...</P>
<P CLASS = right> Duis autem vel eum iriure
dolor... </P>
<P CLASS = left>Lorem ipsum dolor sit amet...
</P>
<P CLASS = right> Duis autem vel eum iriure
dolor... </P>
</BODY>
</HTML>
```

D-I-Y menu

Visual Basic

What you need	User Level
Visual Basic 4.0	Easy — Expert

Add a menu to your Visual Basic projects with Helen Bradley's tutorial.

The menu you'll produce here offers you a choice of backgrounds for your main form and an About screen, too. Figure 1d shows the Background menu open with the choices listed and the currently selected one checked.

Switch backgrounds

Figure 1d: This month's project is a menu for your Visual Basic projects to allow the user to alter the background for the main form.

Menu design

Figure 2d: The Menu Editor is where the menu is designed and should look like this when you are finished.

To create the project start a new project and add the controls and set the properties listed in the table 'Background menu properties #1'.

Click on the form and select Tools, Menu Editor and type in the Caption text box '&Background' and in the Name text box 'mnuBackground'. Make sure Enabled and Visible check boxes are checked and Checked is cleared, and click Next to continue. The next menu item has as its Caption 'Picture #&1', its Name is 'mnuPicture', its Index is 0 and it should be Enabled and Visible but its Checked check box should be cleared. Press the right pointing arrow once to make this a second level menu item (it will have an ellipsis in front of it) and select Next to continue.

Now, repeat this process to add the menu items listed in the table 'Background menu properties #2' (to move between creating first and second level menu items press the left or right pointing arrows).

Background menu properties #1

Object	Property	Setting
Form1	Name	Form1
	Caption	PC User Menu Program
	AutoRedraw	True
	WindowState	2 - Maximised
Picture	Name	Picture1
	Visible	False
	Picture	Add your choice of BMP or WMF file
Picture	Name	Picture2
	Visible	False
	Picture	Add your choice of BMP or WMF file
Command	Name	cmdQuit
	Caption	&Quit
	Cancel	True

Background menu properties #2

Caption	Name	Index	Checked	Enabled	Visible	Level
Picture #&2	mnuPicture	1	No	Yes	Yes	Second
&Color fade	mnuPicture	2	Yes	Yes	Yes	Second
&None	mnuPicture	3	No	Yes	Yes	Second
&Help	mnuHelp		No	Yes	Yes	First
&Index	mnuIndex		No	No	Yes	Second
&About Menu	mnuAbout		No	Yes	Yes	Second

Form2 properties

Object	Property	Setting
Form2	Name	Form2
	BorderStyle	1 — Fixed Single
	Caption	About the Menu Program
Command	Caption	&Ok
	Name	cmdOk
	Cancel	True

The Menu Editor screen should look like the one in Figure 2d when you are finished designing the menu. Select OK to finish.

Now add a new form using Insert, Form — this will be Form2, and add the controls and set the properties listed in the table 'Form2 properties'.

This form is the About form so add a label or two with some suitable information about the program, add a graphic (BMP, ICO or WMF) in a picture box and size the form appropriately. Figure 3d shows the About form displaying over a smaller than full screen version of the main form.

Type the text from Code Box #1 into Form1 and the text from Code Box #2 into Form2. Save the project, call Form1 main.frm, call Form2 about.frm and call the project menu.vbp. Run the program to test the menu.

How it works

In the Menu editor the Caption is what your user will see on the menu when they select the various options and the Name property is the name you use to refer to the menu items in your VB code.

The items on the Background menu have been created as a control array of menu items because they are easier to process this way. Each of the items is mutually exclusive so if you have one turned on, all the others must, by definition, be turned off. The control array allows us to easily identify which menu item was chosen as its index number is stored by Visual Basic in the Index variable.

The mnuPicture_Click subroutine controls what happens when the user selects a menu item, first it turns off the checkmark against the previously selected menu option (its value is stored in the screenBackground vari-

Code Box #1

```
Public currentStartRed, currentStartGreen, currentStartBlue As Integer
Public currentStopRed, currentStopGreen, currentStopBlue As Integer
Public colorChangeStep As Integer
Public screenBackground As Integer

Sub FormDraw()
   If screenBackground = 2 And ScaleHeight ^less than^> 0 Then
      ScaleMode = vbPixels
      DrawStyle = 5
      DrawWidth = 1
      For I = 0 To ScaleHeight Step colorChangeStep
         Line (-1, I - 1)-(ScaleWidth, I + colorChangeStep), RGB((I *
(currentStopRed - currentStartRed) \ ScaleHeight) + currentStartRed, (I *
(currentStopGreen - currentStartGreen) \ ScaleHeight) + currentStartGreen, (I *
(currentStopBlue - currentStartBlue) \ ScaleHeight) + currentStartBlue), BF
      Next I
   End If
End Sub

Private Sub Form_Load()
   currentStartRed = 228
   currentStopBlue = 128
   colorChangeStep = 5
   screenBackground = 2
End Sub

Private Sub Form_Resize()
   FormDraw
End Sub

Private Sub Form_Paint()
   FormDraw
End Sub

Private Sub cmdQuit_Click()
   Unload Me
   End
End Sub

Private Sub mnuAbout_Click()
   Form2.Show 1
End Sub

Private Sub mnuPicture_Click(Index As Integer)
      mnuPicture(screenBackground).Checked = False
      screenBackground = Index
      mnuPicture(screenBackground).Checked = True
   Select Case Index
      Case 0
         Form1.Picture = Picture1.Picture
      Case 1
         Form1.Picture = Picture2.Picture
      Case 2
         FormDraw
      Case 3
         Form1.Picture = LoadPicture()
End Select
End Sub
```

able). The value of the most recently selected menu item is stored in screenBackground and the checkmark next to this menu item is set. Then a case statement is executed to change the background image to one of the pictures in the invisible picture boxes, the form fade colours from the May issue of the magazine, or no background at all (created by loading no picture at all).

The Index option on the Help menu has been created but disabled as there is no help index available. Setting the Enabled property of a menu item to false allows you to show the menu item but make it unavailable to the user. If you select the About option on the Help menu, the procedure mnuAbout_Click runs and loads Form2 (the about form) as modal, so the user must close down the About form before they can continue.

The two invisible picture boxes on Form1 simply act as storage space for the graphics which will be used as the form background. The remainder of the code controls the fading colour effect, which is a cut-down version of the code that appeared in the May '97 issue. ❑

Visual Basic files

The files used for this tutorial are available on this month's CD-ROM. They won't all work in your version of Visual Basic, so you need to use the ones that will.

Start by opening the VBP file — if you get errors then you can't use it. You will, however, be able to copy the code from the TXT file to save you typing it. Just make sure you have named all your controls correctly so that the code will match them.

See page 3 for details.

Program info

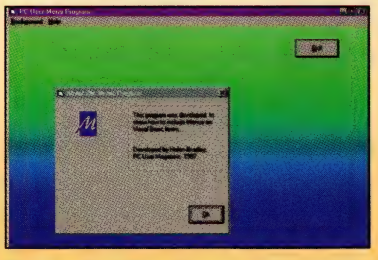


Figure 3d: The About form shows information about the program and loads over the top of the main form.

Code Box #2

```
Private Sub cmdOk_Click()
   Unload Me
End Sub
```

What you need	User Level
Windows 95 14,400bps or faster modem SLIP/PPP Internet connection	Easy — Expert

Upgrading to Windows 97

Windows 95

There's no need to wait until Windows 98 ships to get your next operating system upgrade. It's available now, in the form of True Web Integration, brought to you by Internet Explorer 4. Rose Vines explains how to get it.

The goal of True Web Integration is to blur the line between your computer and the Internet. Why should locating a file on your hard disk be so different from locating a Web page or file on the Internet? Why should you single-click hyperlinks but have to double-click Desktop icons and folders? Why should navigating files and folders be so different from navigating the Web?

Microsoft asked all these questions when it started designing the next version of Windows. When Windows 95 was released, Microsoft was yet to come to grips with the growing importance of the Internet. By the beginning of 1996, however, the company realised that the Internet was not just important, it was rapidly becoming *central* to the future of computing. With this knowledge came the realisation that the two key software components everyone would need — operating system and browser — worked in entirely different ways.

So the company set to work to make Windows 98 more browser like. The way to do that was to integrate the browser with the operating system. In the meantime, many of the same goals could be achieved by getting the next version of its browser to sink its hooks into Windows 95 and infuse the operating system with browser functionality from without.

So, the combination of Internet Explorer 4 and Windows 95 gives you much the same interface as you'll find when Windows 98 ships.

Activating integration

In early preview versions of IE4, installing the browser automatically installed the Active Desktop features as well as all the other True Web Integration features. After a lot of feedback from users confused by the one-click world they'd suddenly encountered, Microsoft decided to go the reverse route when it released the final product. Now, when you install IE4, many of the Web Integration features are turned off. You have to turn them on yourself to get the new features.

Turning full Web Integration on is easy. Open any folder and choose Folder Options from its View Menu. In the General Tab of the Folder Options dialogue box, select Web Style and click OK. The first time you do this Windows will check whether you want to use single-click or double-click. Choose single-click to get the full flavour of Web Integration.

You can also turn the Active Desktop on and off by right-clicking any blank space on your Desktop, selecting Active Desktop from the pop-up menu, and then select View As Web Page from the cascading menu. Using this technique only affects the display of Web-style information on your Desktop, it doesn't affect your folder views.

Customising your Desktop

You can change the appearance of your Desktop further by selecting a different wallpaper (the default is pretty distracting) and turning on and off Desktop *components*.

To change your wallpaper, right-click the Desktop in a blank space and choose Properties from the pop-up menu to display the Display Properties dialogue. Click the Background tab and select a different background. To keep things simple, you can scroll to the top of the list and choose None, and then click the Appearance tab and choose the colour you like most for your Desktop.

Once you've done that, click the new Web tab. The View My Active Desktop As A Web Page option should already be selected. Beneath that you'll see a list of Desktop components — probably only the Internet Explorer Channel Bar at this stage. You can remove the Channel Bar from your Desktop by clearing the tick beside its name in the list.

Desktop components are 'active' because they can be updated by feeds from the Internet. They can include push channel content, HTML code, ActiveX components and other items. You can add new items to your Desktop by making sure you're connected to the Internet and then clicking the New button. You'll be prompted to visit the Active Desktop gallery on the Web — a great source of pre-built components for your Desktop. You'll find you can populate your Desktop with stock tickers, news feeds, search buttons and all sorts of flotsam and jetsam. Just remember that to use many of these items you need to be online and

connected to the Web. You also need to remember to leave room for your work on your Desktop!

An easy way to add Desktop components is to connect to a site using IE. Once connected right-click-and-drag the little icon that appears in the left-hand side of the Address box in the browser. Drop the icon on the Desktop and a menu will appear, offering to create a shortcut to the site or to create an Active Desktop component. If you choose the latter, you'll be presented with a dialogue box asking if you want to subscribe to the site, and letting you customise the subscription. By customising the subscription you can choose how and when the component is updated, and whether your computer should connect automatically to download new content.

New clicks

Once you've activated Web Integration, all sorts of interesting things happen. You'll notice that items on your Desktop are now underlined. Single-click an icon and it will open.

This new clicking style takes quite a bit of getting used to. Not only do single-clicks replace double-clicks on the Desktop and in folders, but you'll also find that simply moving your mouse cursor over an item in the active window will highlight that item. Watch out for this — it's very easy to accidentally run programs or send items to the Recycle Bin when that was not your intention. If you find items on your Desktop are not highlighted when you move your cursor over them, click in a vacant spot on the Desktop to ensure it's the active window, and then try again.

Selecting multiple icons is particularly strange. Try it: open a folder containing a number of icons. Point to one icon (don't click!) to select it. Now hold down the Shift key and move the mouse cursor over adjoining items — all the items between the first one you selected and the last one you point to will be highlighted. To select non-contiguous items, point to the first item then hold down the Ctrl key and point to other items. To deselect an item, keep the Ctrl key depressed while pointing to the item.

You can also select multiple adjoining icons in the old manner by clicking in the space beside an icon and dragging the mouse cursor. You'll see a box appear enclosing all the icons. When you release the mouse button, all those items will be selected.

You can no longer click, pause, then click again to rename an icon. Instead, you'll need to right-click an icon and choose Rename from the pop-up menu.

Take your time getting used to these new techniques. At first it can be pretty uncomfortable, but with time you're likely to grow to love them and come to resent the exertion of double-clicking when it's required. And unfortunately, it *is* required: IE4 doesn't change the behaviour within Save and Open dialogue boxes in your applications, so you'll have to revert to double-clicking there.

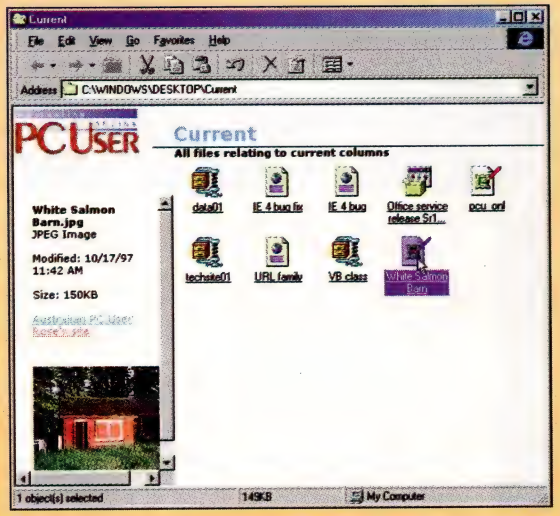
If you find you hate the single-click and want to toss it out, open any folder, choose Folder Options from the View Menu, click the Custom, Based On Settings You Choose option and click the Settings button. You'll find an option to reset your folders to a double-click.

A new start

Internet Explorer 4 changes your Start Menu. Open it and you'll see there's a new option called Favorites. Now you have direct access to all the Web pages you add to your Favorites list, without even having to open Internet Explorer itself. Select a Web page from the Favorites Menu and IE will

Folder transformation

Turn True Web Integration on and your folders are transformed. Note the browser-style toolbars and Address bar at the top. In the left-hand side you can see information about the highlighted file, including a thumbnail picture of the file's contents. 'Hidden' files are displayed in a ghostly shade (you can turn the display of hidden files on and off in the Folder Options dialogue).
What you're looking at is an HTML file — a 'Web page', if you will. You can customise the HTML code that's used to display the folder contents to your heart's content.



Here's the same folder after we've modified the underlying HTML code. We've replaced the default folder graphic with a *PC User* logo and added a subheading beneath the folder name to identify the folder's purpose. We've also added some Internet links to the Information pane at left. You can click either of these links to jump directly to the Web site from the folder.

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1. Instructions on "How to Enter" form part of these Conditions of Entry. The competition is open to residents of Australia only whose new subscription or renewed subscription for one year or more to *Australian PC User* is received between 19 November 1997 and last mail 24 February 1998 and is signed against a nominated valid credit card or, if paid by cheque, cleared for payment. Current subscribers, whose subscription falls due within the dates of the promotion, but who have renewed early, will automatically receive an entry in the draw.

2. The winning entry will be the first drawn at the promoter's premises, 54 Park Street Sydney on 10/03/98 at 11am by a representative of *Australian PC User*. Employees of ACP Publishing Pty Limited, ACN 053 273 546, Compucon Computers, ACN 063 659 816, their families and advertising agencies, are not eligible to enter. All entries become the property of ACP Publishing Pty Limited, the promoter, and may be used in future marketing promotions.

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6. Permit numbers applied for.

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1. Which of the following job titles most closely matches your position?

❑ 1. Managing Director, General Manager
❑ 2. Data Comms/Network Manager
❑ 3. LAN Manager
❑ 4. Microcomputer Manager
❑ 5. MIS Manager
❑ 6. EDP/DP Manager
❑ 7. Project Manager/Group Leader
❑ 8. Engineer/Architect
❑ 9. Accountant/Finance Officer
❑ 10. Systems/Programme Analyst
❑ 11. Consultant/Advisor
❑ 12. Other Computer Department Employee
❑ 13. Educator
❑ 14. Sales Representative
❑ 15. Office Administrator
❑ 16. Student
❑ 17. Other Professional
❑ 18. Other (please specify)

_____

2. What is your organisation's primary business activity?

❑ 1. Government, Utilities
❑ 2. Agriculture, Mining, Oil
❑ 3. Transportation
❑ 4. Construction
❑ 5. Computer Manufacturer/Distributor
❑ 6. Communications
❑ 7. Computer Retailer/Reseller/Consultant
❑ 8. Finance, Banking, Insurance
❑ 9. Research & Development
❑ 10. Engineering, Architecture
❑ 11. Manufacturing (non-computer)
❑ 12. Retail (non-computer)
❑ 13. Publishing, Media
❑ 14. Health
❑ 15. Legal
❑ 16. Armed Forces
❑ 17. Other (please specify)

_____

3. How much IT equipment do you anticipate being involved with the purchase of during the next 12 months at work? (Please include all hardware, software, peripherals, connectivity equipment and consumables).

❑ 1. None
❑ 2. $1 - $999
❑ 3. $1000 - $4999
❑ 4. $5000 - $9999
❑ 5. $10,000 - $49,999
❑ 6. $50,000 - $99,999
❑ 7. $100,000 - $249,999
❑ 8. $250,000 - $499,999
❑ 9. $500,000 - $999,999
❑ 10. $1,000,000+

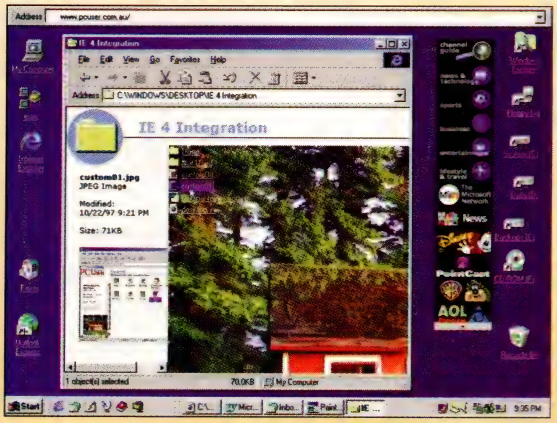
4. How many microcomputers are you directly responsible for at work?

❑ 1. 1 - 9
❑ 2. 10 - 19
❑ 3. 20 - 49
❑ 4. 50 - 99
❑ 5. 100 - 499
❑ 6. 500 - 999
❑ 7. 1000 - 1999
❑ 8. 2000 - 4999
❑ 9. 5000+

97PUDE

❑ *Check here if you do not wish to receive information from third parties*

Desktop overload



Your Windows 95 Desktop will crawl with activity once you activate IE4's Web Integration. In fact, you'll have to make sure you don't go overboard and make your Desktop unreadable, as this one very nearly is. What's been done to this Desktop to customise it?

1. The Address toolbar has been activated and dragged to the top of the screen. Type in a Web address to connect directly to the Internet.

2. The Internet Explorer Channel bar is active. Click one of the channels to go online and connect.

3. The Quick Launch bar in the Taskbar has been customised with the addition of shortcuts to a specific help file and to the WinZip program.

4. The open folder has been customised to display a different background. It's pretty, but perhaps not the best choice for legibility.

be launched automatically. The Favorites Menu also includes any other items you've added to your Favorites folder, including files, folders and Web channels.

The Settings option on the Start Menu has also changed. It now sports options to change your Active Desktop and Folder settings, so you can adjust Web Integration from there.

The Find option, too, has been enhanced, with options to locate people in your address book or find pages on the Internet.

You can easily add items to the Start Menu yourself by dragging any icon onto the Start button. Doing so will place a shortcut to that item onto the Start Menu. While this, in itself, is not a new feature, the way you can move things around on the Start Menu is. Open the Programs cascading menu, for example, and click-and-drag any item from its current position to any other position on the Start Menu. In this way, you can retrieve an often-used program that's buried three or four menus deep and place it slap bang on the initial Start Menu.

Turbo-charged Taskbar

One of the areas most enhanced by Web Integration is the Taskbar. You'll notice there's a new section containing a group of icons directly to the right of the Start button. This area is called the Quick Launch bar. If you've installed the complete IE4, it'll be populated with four icons: an Internet Explorer icon, an Outlook Express icon, a Show Desktop icon, and a View Channels icon. Single-click the IE icon to launch IE; single-click the Outlook Express icon to run the e-mail and newsreader included with IE; single-click the Show Desktop icon to automatically minimise all open windows and view your Desktop unimpeded; and single-click the View Channels icon to launch Internet Explorer in 'channel viewing' mode.

You can add items to the Quick Launch bar in the same way you add them to the Start Menu: click-and-drag an icon onto the bar. Doing so will place a shortcut to the folder, file, Web link or program you've placed there. This change is permanent — the new icon will remain in the Quick Launch bar even when you reboot. To remove it, right-click it and choose delete from the pop-up menu. You can also rearrange any item in the Quick Launch bar by dragging-and-dropping it in its new position.

If you add a number of items with the same icon (such as folders) to the Quick Launch bar, let your cursor rest over the item for a second and a tooltip will pop up with a description of the item.

You will have grown accustomed to the program buttons which appear in the Taskbar whenever you launch a program. Now, they behave somewhat differently. It used to be that you would click a program button once to switch to that program. If you clicked the button of the currently active program, however, nothing would happen. With Web Integration, the program buttons work like switches: click an inactive program button to switch to that program; click the button of the active program to minimise that program and show the windows behind. It's amazing how such a tiny trick can save a lot of time.

These new features make the Taskbar a much more interesting place. But the true power of the new Taskbar is hidden: right-click on any vacant space on the Taskbar (if there's no vacant space available, right-click on the time display at the right-hand end). The pop-up menu that appears contains a new item called Toolbars. Internet Explorer 4 comes with four toolbars which you can add to the Desktop. The Quick Launch toolbar is already enabled. In addition, you'll find a Desktop, Address and Links toolbar, and the option to create your own toolbars.

The Desktop toolbar creates an icon for every item that appears on your Desktop. In this way, if you have a program window maximised, you can still access any Desktop item with a single click.

The Address toolbar gives you an Internet Explorer address box right there on your Taskbar. This is a terrific time saver: instead of having to launch IE and have it connect to your default home site before navigating to your ultimate destination, you can simply type an address into the Address toolbar and IE will be launched automatically, taking you directly to the site.

Similarly, the Links toolbar is like having part of IE built right into the Taskbar. It displays the Links you have on your Internet Explorer Links bar (which you can easily customise by dragging Web links straight onto the bar).

Of course, if you open up all these

toolbars, you'll clog up your Taskbar. There are two things you can do about this. First, if you double-click on the horizontal mark at the left of a toolbar, the toolbar will snap shut or open up fully. Alternatively, you can click-and-drag any of the toolbars and float them anywhere on your Desktop, or dock them to any edge of the screen. If you float a toolbar, you'll probably want to resize them (click-and-drag any edge of the toolbar), as the default shapes are out of whack.

You can also, as of old, increase the size of the Taskbar itself by clicking-and-dragging its top edge.

IE or WE?

To view the most dramatic changes wrought by True Web Integration, open any folder. Take a good look — is this Windows Explorer or Internet Explorer you have open? The toolbar along the top looks like a cross between a browser toolbar and a normal folder toolbar. There are back and forward buttons for navigation through your folders, plus cut, copy, and paste, undo, delete and views buttons.

The menus along the top, too, combine different types of options. From the Go Menu, for instance, you can jump to your Home Page, open Outlook Express, make an Internet call (using NetMeeting), or search the Web. There's also another Favorites Menu. Choose one of the Explorer Bar options from the View Menu and you can place a search, favorites, history or channels bar down the left-hand side of your folder window.

Decidedly browser-like is the Address box immediately below the toolbar. Items in the folder are underlined as with hyperlinks, and there are background images in the folder: a large folder icon beside the name of the folder. Down the left-hand side — if you have the folder sized large enough — is an information pane. It's markedly different from anything you're used to.

Move your cursor over an icon in the folder. Information about the icon is displayed down the left-hand side: the item's full name, the type of document it is, its size and the date it was last modified. If the item is a graphic file or HTML file, a thumbnail image of its contents is generated and displayed in the information pane.

More than almost any other element, the Address box emphasises how much True Web Integration blurs the line between your computer and the Internet. In the Address box you'll see the full pathname of the folder. For instance, if you've opened a folder called Downloads located directly on your Windows Desktop, you'll see C:\WINDOWS\DESKTOP\Downloads in the Address box. Click the down-arrow at the right side of the Address box to see an almost traditional style listing of your system's drives. Type a path to another folder in the Address box, such as C:\MY DOCUMENTS (unlike Internet addresses, you don't have to worry about case) to display the contents of that folder. Now, type an *Internet address* into the Address box and press Enter. Up comes Internet Explorer (if you're not online, you'll be connected) and you're transported to the site. Click the down-arrow at the right of the Address box now and you'll see it contains a list of recently visited links, plus the 'addresses' of folders you've opened recently. Just as you can type an Internet address into a folder Address box, you can type the name of a folder on your hard disk in the IE browser Address box.

As you'd expect, you can use the AutoComplete feature, which is part of the normal IE4 browser in your folder Address box too: type the first few characters of a Web address or local folder name and IE will complete it for you if you've visited it recently.

And for those of you who can still remember those good ol' DOS days, try this one: in a folder Address box type .. (two full stops) and press Enter. Remember that DOS shorthand? It opens the folder immediately *above* your current folder.

Active Desktop components

Looking for Active Desktop components for your newly Web-enabled Desktop? Microsoft's Active Desktop Gallery offers a couple of dozen, including a jukebox, entertainment news, clocks, technical updates and the usual assortment of stock tickers, news feeds and weather info. If you're more adventurous, you can create your own Desktop component by coding it in HTML or ActiveX.

Folders the way you want

You'll find your folders are astoundingly customisable. The View Menu lets you change the look of the toolbars and open different toolbar and Explorer bars. You can also, of course, switch between the usual large icon, small icon, list and detail views.

The Folder Options option, as we've seen earlier, lets you switch between Web-style folders, Windows 95 'classic' style, or customised settings. You'll also see a Customize This Folder option on the View Menu. This one's particularly interesting.

Choose Customize This Folder to display a Wizard with three options. The first choice is to create your own HTML file (remember, under True Web Integration, your Desktop and folders act as Web pages) or edit the existing default HTML file to create your very own folder style. The second option is to choose a different background for your folder. The final option lets you restore your folder to the original look — very important if you edit the standard HTML file and make a mess of it in the process!

Registration confrontation

DOS/Windows 3.1x

A corrupt registration database can make Windows walk on the wild side. Link Harris explains why — and tells how to retame it.

What you need	User Level
Windows 3.1x	Easy — Expert

If File Manager suddenly refuses to print your files or open them, or if object linking and embedding (OLE — pronounced "oh-lay") packs it in without warning, the most likely culprit is a corrupt registration database. A feature of both Windows and Windows for Workgroups, beginning with version 3.1, the registration database lives in a binary file called reg.dat, located in your Windows directory.

What is it?

Reg.dat is the primary Windows source for information about its installed applications. True, there's some application information in the win.ini file, but Windows only searches there if it can't find what it wants in reg.dat.

The contents of reg.dat are modified whenever you install an OLE server — an application (such as Paintbrush or Publisher) that can provide objects for linking to, or embedding in, other applications. When an application adds its OLE pedigree (which includes blueprints for opening and printing files) to reg.dat it has, reverting to Windowsspeak, registered itself as an OLE server.

That's why reg.dat is called the registration database. For compatibility with earlier programs that don't know about reg.dat, Windows mirrors a skeleton of reg.dat's OLE server list in the [Embedding] section of your win.ini file.

In addition to the OLE server details, reg.dat maintains a complete catalogue of associations, which are pairings of a filename extension with a particular application (*.TXT with Notepad, for example). Whenever you open or print a file from File Manager, it digs into reg.dat for the appropriate association and fires up the paired application. Windows duplicates most of the associations in the [Extensions] section of win.ini. If reg.dat somehow loses an association, File Manager can probably pick it up from win.ini — but only for opening files, not for printing them.

Ongoing maintenance

Some programs can only register themselves with reg.dat when they're installed. Others, including Windows itself, provide their own registration file (*.REG), which is saved separately from reg.dat. Although you can view a registration file with a text editor such as Notepad (see Figure 2), you need the Windows Registration Editor (Figure 3 and 4) to manually merge the details into reg.dat.

Many applications are able to automatically rebuild their section of reg.dat, as required, every time they run. They manipulate reg.dat in RAM, and the updated file is saved to disk — either when you load the application (as with Paint Shop Pro) or when you quit it (as with ScreenCam). Some applications, such as ScreenCam, don't even bother with their own initialisation (*.INI) file, opting instead to stockpile details of window size and position, last files opened and user preferences in reg.dat.

What goes wrong?

If an application alters reg.dat, but crashes before the modified file can be saved, the result could be a corrupt reg.dat. The effects of this corruption usually won't surface until the next time you start Windows.

Corrupt reg.dat

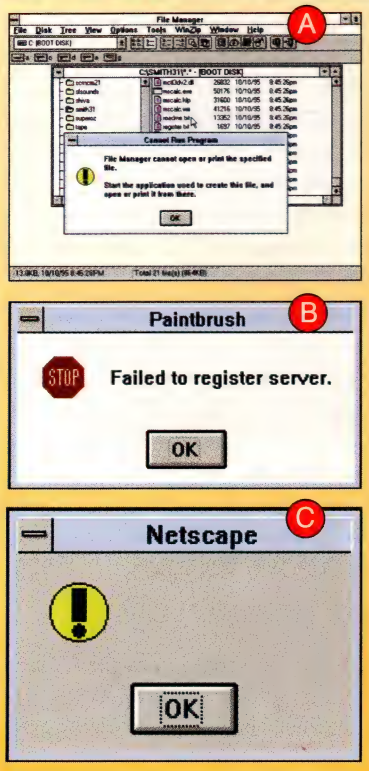


Figure 1: A corrupt registration database (reg.dat) robs File Manager of its associations (a), while responses from affected applications range from helpful (b) to hopeless (c).

When Windows starts it looks for reg.dat in your Windows directory (usually C:\WINDOWS), but won't look beyond that, ignoring files of the same name in any other directory. If Windows finds reg.dat, it loads it into RAM — but only if the file is 100 per cent fit. If reg.dat looks even a little bit peaky, Windows declares the entire file corrupt and won't load it.

However, Windows doesn't tell you about this until later, when you ask it to do something that requires information from reg.dat. The error messages in Figure 1 give some examples of what you might encounter.

Repairing reg.dat

The registration database, reg.dat, is an essential Windows file that's frequently updated, easily damaged and a pain to fix. You should regularly back-up this file, even if it's just to another directory on your hard disk. Then when you're confronted with a corrupt

View registration files

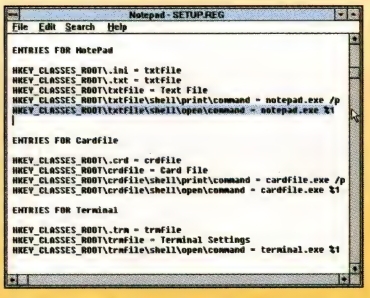


Figure 2: Registration files, such as the Windows default setup.reg, are text files which can be viewed in a word processor or text editor.

reg.dat, it's easy to resurrect it from the backup, quit and restart Windows — and you're back in business.

However, if you don't have a recent backup of reg.dat, you can rebuild it using the Registration Editor (Regedit). First, a few tips:

1. Regedit acts as a graphical front end for reg.dat that lets you edit the file. However, Regedit doesn't behave like a text editor or word processor, in that it won't let you open a *.DAT file or create one from scratch.

2. Regedit depends on Windows to load reg.dat, ignoring the file in your Windows directory and grabbing it straight from RAM. This means that Regedit won't start if Windows hasn't been able to load reg.dat (because it's corrupt, for example).

3. Regedit offers two different display options (or interfaces). Running regedit opens the default interface (see Figure 4), and regedit /v (/v is the verbose switch) opens the advanced interface (see Figure 3). Compared with the default, the advanced interface displays more details and includes Restore to Last Save (Undo) and Search.

4. Both Regedit interfaces let you merge registration files (*.REG) into reg.dat. Because of its Undo option, however, the advanced interface doesn't update reg.dat until you select Save Changes from the File menu (see Figure 3).

5. You can merge registration files into reg.dat without first opening Regedit. Specifically, after the default Windows details (which include the

Advanced Regedit

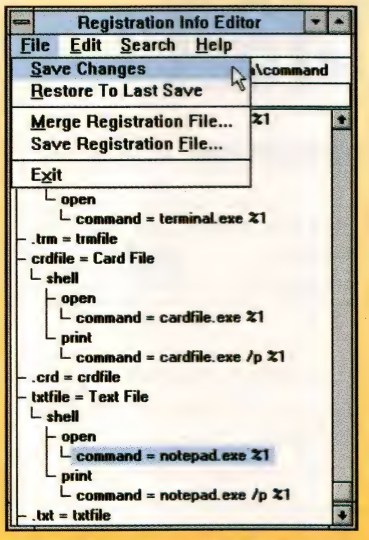


Figure 3: Registration Editor's advanced interface (regedit /v), after Merging Registration File setup.reg shown in Figure 2.

*.reg/regedit.exe association) are registered in reg.dat (Step 7 below), double-clicking on a registration file automatically merges it into reg.dat.

6. Nevertheless, running regedit /v while you double-click on *.REG files lets you watch the rebuilding progress as new details are added at the top of the display.

Here's how to go about rebuilding the reg.dat:

Step 1: Open File Manager, select View, and be sure Tree and Directory, All File Details and Sort by Date are all checked. This lets you monitor reg.dat's progress as you rebuild it.

Step 2: Still in File Manager, select the suspect reg.dat and rename it. That way you can retrieve the file in case it's okay and the problem is due to something else.

Step 3: Quit and restart Windows. This creates a new skeleton reg.dat.

Step 4: Open File Manager, and select C:\WINDOWS (or whatever your Windows directory is called). Then find reg.dat, which should appear at or near the top of the directory, and note its size and time.

Step 5: Still in File Manager, select File, Run. Then type regedit in the Command Line field and click OK.

Default interface

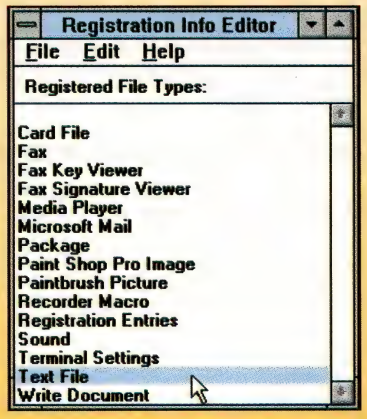


Figure 4: Registration Editor's default interface (regedit) displays fewer details than the advanced interface shown in Figure 3.

This opens the Registration Editor.

Step 6: When the Registration Editor window appears (the contents will probably be different from those in Figure 4), select File, Merge Registration File.

Step 7: The default reg.dat entries for Windows are held in the file setup.reg (see Figure 2). To add these to reg.dat, from the Regedit dialogue box select C:\WINDOWS\SYSTEM\ SETUP.REG and click OK. After the box showing "Information in C:\WINDOWS\SYSTEM\ SETUP.REG has been successfully registered in the registration database" appears, you should see reg.dat updated in both File Manager and Regedit.

Step 8: In File Manager, select Search from the File menu and be sure Search All Subdirectories is checked. Then type c:\ in the Start From field and *.reg in the Search For field and click OK. This finds all the registration files on drive C:. Double-click on each file in turn to add its details to reg.dat.

Step 9: Repeat Step 8 for each of your drives.

Step 10: Try opening and closing each of your applications. Don't be surprised if history details and/or your preferences have disappeared.

Step 11: If any applications still don't work properly, you will have to reinstall them to correct their reg.dat entries.

Keyboard craft

Windows NT

Link Harris abandons his mouse and reveals keyboard shortcuts to make your desktop dance.

What you need	User Level
Windows NT Workstation 4.0	Easy — Expert

NT4's keyboard shortcuts are one of Microsoft's best-kept secrets. Although NT4 has inherited most of the standard shortcuts from Windows 3.1x and 95, it also boasts a few exclusives. Here are some of my favourites.

Going global

These keyboard shortcuts work anywhere in NT — from the desktop as well as in utilities and applications. Pressing Ctrl+Esc displays the Start menu (and pops up the Taskbar if it's not visible). Once the Start menu is displayed (however you do it), you can minimise all windows to the Taskbar by pressing Alt+M.

If you have several programs running, pressing and releasing Alt+Tab switches to the previous program you used. However, keeping Alt depressed when you release Tab displays a box that contains an icon for each program. Then tapping Tab progressively selects the next icon in the row, and releasing Alt switches to that program. In contrast, pressing Alt+Esc cycles through the program windows, but doesn't display programs that have been minimised to the Taskbar. Pressing Ctrl+F4 will close the active window in many applications, and you can quit a program (or NT, if no programs are running) by pressing Alt+F4. And if a program hangs and won't respond to your keyboard or mouse, you can press Ctrl+Shift+Esc to open Task Manager and quit it from there.

From the Start menu, tapping the first letter in the name of a document or program launches it. However, if there's more than one name beginning with the same letter, tapping that letter selects the first name. Repeat taps cycle through the names beginning with that letter, and pressing Enter launches the one you select. In Windows NT Explorer and all Open, Save and Browse dialogue boxes, pressing F4 drops down the Save In or Look In list, and pressing F5 refreshes the list after it has been changed by another application. Finally, to view the Properties screen for any selected item, press Alt+Enter.

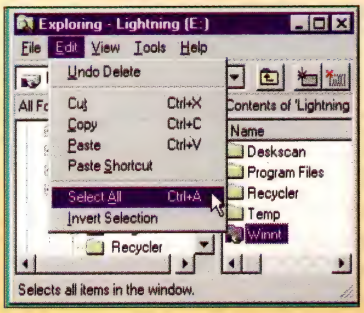
Win key shortcuts on 104 keyboard

Win: Pop up Taskbar and display Start menu
Win+F1: Open Windows NT Help
Win+Break: Display System Properties
Win+Tab: Cycle through minimised Taskbar icons
Win+E: Open Windows NT Explorer
Win+F: Open Find: All Files
Win+Ctrl+F: Open Find: Computer
Win+M: Minimise all windows
Win+Shift+M: Undo minimise all windows
Win+R: Open Run dialogue box

Shortcut menu

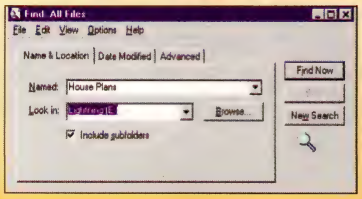
Pressing Shift+F10 calls up the context-sensitive Shortcut (or right-click) menu.

Mouse-free menus



You can open a menu by pressing Alt+underlined_letter in the menu name (Alt+E opens Edit), and similarly select from the menu by tapping the letter underlined in your choice (A for Select All). Key combinations shown to the right of a menu item are even slicker shortcuts (Ctrl+A does the same as Alt+E, A), but not all such shortcuts are revealed on NT4's menus.

File search



You can quickly locate a file or folder by pressing F3 or Win+F.

Insider tip

Crash button

Gamers using a 104 keyboard should beware of the Win key if the game they're playing hides the Taskbar. Accidentally tapping the Win key — easy to do since it's nestled between essential action keys Ctrl and Alt — will crash the game.

Link Harris

Link Harris can be contacted at link@wn.com.au

Local talent

On the desktop, in Windows NT Explorer or in a folder window, pressing F3 calls up the Find: All Files dialogue box. After selecting an item, pressing F2 lets you edit its name, or Shift+Delete zaps it straightaway, bypassing the Recycle Bin. Warning: This is one operation pressing Ctrl+Z won't undo. In Windows NT Explorer, Ctrl+G calls up the Go To Folder dialogue box, and tapping F6 moves anticlockwise through the two panes and the drop-down list. However, tapping Tab does the same — and has the advantage that Shift+Tab moves in the opposite direction. Using the numeric keypad in NT Explorer, + expands a folder, * expands all subfolders and - collapses a folder.

Keyboard update

If you're using Microsoft IntelliType version 1.1 keyboard software, there's an updated kbd32.cpl in itupd.exe on this month's CD-ROM. See page 3 for details.

AUSTRALIAN OFFLINE PC USER

Warp 4.0 tips: Disk caching

OS/2

Mark Rogers explains how to boost OS/2's performance with disk caching tips.

What you need	User Level
OS/2 Warp 4.0	Easy — Expert

Disk caching can make a world of difference to your hard disk access. To modify them we need to open OS/2's config.sys file, found in the root directory of your OS/2 boot drive. Before we begin, make a copy of it just to be safe.

The lines in your config.sys file that control your HPFS and FAT caches are:

For HPFS: IFS=C:\OS2\HPFS.IFS /CACHE:256 /CRECL:16 /AUTOCHECK: CDE (or similar).

For FAT: Diskcache=64,LW,32, AC:C (or similar).

If you only use one of the file systems you should REM out the file system line that you do not use (the FAT cache uses around 70Kb).

In the HPFS line above:

/CACHE:256 The maximum cache setting is 2048, representing 2048Kb (2Mb).

/CRECL:4 Controls the maximum record size for caching, ranging from 2Kb to 64Kb, and runs in increments of 2Kb (the default is 4Kb).

/CRECL This parameter should not exceed a quarter of the total cache size set with the /CACHE parameter.

/AUTOCHECK:XX Tells OS/2 to run CHKDSK on the specified drives, XX, on every startup after a 'dirty' shutdown.

In the FAT line above:

256 Is the FAT cache size with a range between 48Kb and 14,400Kb (Note: Under OS/2 Warp 3.0 and above the letter 'D' is used instead of the usual numeric value. This allows Warp to best guess your cache setting at bootup.)

LW Stands for 'lazy writes' and allows data in the cache to be written when the system load is lower, thus improving performance.

32 Sets the 'threshold' size (the default is 4, though 32 is said to be the optimum number, with 128 being the maximum).

AC:C: Is an abbreviation for Auto Check (AC) and runs the CHKDSK command on startup after a 'dirty' shutdown.

You can further enhance the HPFS cache by finding the line:

```
PRIORITY_DISK_IO=YES
```

and following it with the line:

```
RUN=C:\OS2\CACHE.EXE /
MAXAGE:5000 /DISKIDLE:1000
/BUFFERIDLE:500 /LAZY:ON
```

The above line shows the default HPFS cache values.

/MAXAGE Sets the amount of time before data is either moved to the 'stale' buffer area of the cache or written to the hard disk. The numbers are expressed in milliseconds, so the above is five seconds.

/DISKIDLE Expressed in milliseconds, determines how long the hard disk must be idle before it accepts data from the cache.

/BUFFERIDLE Expressed in milliseconds, sets how long the cache's buffer must be idle before its contents can be written to the hard disk.

/LAZY Turns lazy writes on or off. Performance is enhanced with it on as data is cached in the system; with it off the system writes to the hard disk immediately. It should only be included if you are turning the cache off, because the inclusion of the /LAZY statement cancels all other switches. (The above cache statement is a special case, as all values are the default values.) ❑

What you need	User Level
Windows 3.1 or later 14,4000bps or faster modem SLIP/PPP Internet connection	Easy — Expert

Site seeing

Rose Vines surfs with a new Australian search directory, learns new Internet standards, goes on a shopping spree at a new mall and more.

Net sites

Internet

Accessibility standards for Web design

If you have your own Web site, you're no doubt aware of the need to create a site that is readable by different browsers. What works well in Navigator 4 may be unreadable by someone using Internet Explorer 3.

But have you given consideration to the fact that many people surfing your site may be vision impaired and could, possibly, be using a browser that 'reads' your site aloud to them, line by line? Or that some people will be unable to hear that nifty audio recording of a lecture you feature on your homepage?

The NSW Attorney General's department has issued a set of standards and guidelines that describe how to make your site accessible to as many people as possible. If you want to design your site for maximum accessibility, check out this site. The Human Rights and Equal Opportunity Commission has its own guide (at www.hreoc.gov/au/disabil/webguide.htm).

URL: *www.agd.nsw.gov.au/standards.htm*
Bandwidth: *Low*
Best viewing: *Any browser*
Rating: ★★★★

Australian search engines

LookSmart Australia

The just-launched LookSmart Australia is going to give other Australian search directories a run for their money. Claiming the largest directory of Australian sites (20,000) in addition to hundreds of thousands of international sites, LookSmart Australia lets you navigate its categories by a pull-out menu system, in addition to a keyword search. Each site listing includes a brief synopsis.

You can personalise LookSmart so it displays your local newspapers, weather, restaurant guides and other information.

All in all, a very professional and welcome addition to online searching.

URL: *www.looksmart.com.au*
Bandwidth: *Mild*
Best viewing: *Graphics-capable browser*
Rating: ★★★★★

Computer malls

Telstra SureLink

There's no doubt about it — Australia is lagging way behind the US when it comes to online shopping. A surprisingly large number of online shops let you view the goods online, but then tell you to e-mail, fax or phone your order. No online ordering. It makes for a decidedly unsatisfactory experience.

A couple of new entrants into the online shopping business might make things more interesting. One is Telstra SureLink.

SureLink is an online shopping framework that includes secure online transactions, purchase receipts, and centralised access to stores. The current pilot program features merchants such as Angus & Robertson's, Trumpet Software, Butterworths and JB Hi Fi, and there will undoubtedly be many more by the time the system is fully operational.

URL: *www.surelink.com.au/index.htm*
Bandwidth: *Medium*
Best viewing: *Graphics-capable browser*
Rating: ★★★★

Cyber shopping

OzPC — The Computer Cyberstore is starting off with a great design. If it can attract quality content it'll make a great online shopping destination.

OzPC

Due to be launched on January 1st 1998, OzPC — The Computer Cyberstore is a shopping mall focusing entirely on computers: hardware, software, training and consultants. It has a stylish design, using an elevator metaphor to transport you around the shopping complex.

In the Lobby you'll find games, software and hardware reviews, a chat board, computer news, tips and tricks, classifieds, and the buy of the week. Take the lift up to floors featuring computer services and shops.

We'll be keeping tabs on this site: if they can fill this mall with shops, they'll definitely earn the extra star to make them a five-star site. Given the dearth of good Australian online shopping sites, we hope to see this one succeed.

If you happen to be looking for a place to set up your own online shopfront, OzPC is offering a variety of packages that include everything

Bulletin Boards: A hot time online

Hell BBS

Phone: *(02) 4257 7480*
Speeds: *2400 to 28,800bps*

Although flames erupt from the menus, there's no brimstone on Hell BBS — and sysop Trent Renshaw is definitely not the devil. "It's a friendly BBS with heaps of free fun and exciting things to do," he says. One unusual freebie lets the BBS receive faxes for members, who can download them at their next logon. Online fun focuses on games. These range from the latest downloadable releases from 3D Realms, Apogee, ID Soft! and Epic MegaGames — plus add-ons for the likes of Doom+, Quake and ProTracker — through to both local and InterBBS online competitions.

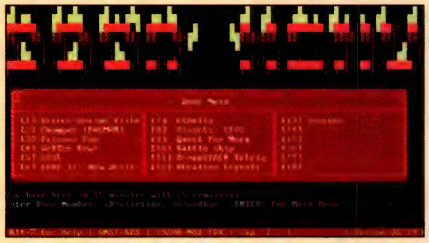
On top of two online CD-ROMs, nearly 3Gb of files get a 10Mb weekly refresher, and there are over 100 assorted FidoNet message conferences.

Non-payers can timebank up to one hour of their unused daily 40-minute allocation of online time, but they're subject to upload/download ratios of 1:30 files and 1:2048Kb. An annual subscription of $10 removes those ratios and increases online time to 60 minutes with a two-hour timebank. Beaming from Albion Park in the NSW Illawarra Region, the board's local call catchment extends from South Helensburgh through to Greenwell Point.

Archer on the Net

URL: *http://www.spin.net.au/~sandra*

ArcherNet, formerly a FidoNet-type forum for mature messagers, has immigrated to the Internet — resurfacing as Archer Mailing List. "The Internet makes Archer available to a wider community, and messages move much faster," says ArcherNet originator Sandra Shaw. Archer's participants moderate their own discussions, which exclude flaming (personal abuse or put-downs). Unlike Internet newsgroups, mailing lists distribute their messages by e-mail, with a copy automatically forwarded to everyone who has subscribed to the list. To join in the Archer discussions, send an e-mail to Sandra Shaw at sandra@spin.net.au saying you want to subscribe (Internet jargon for having your e-mail address added to the list). If later you decide Archer has missed your target, send her (not the list) another e-mail saying you want to unsubscribe.



The Hell BBS Door Menu fans a fiery selection of online games — including the current rage LORD II: New World.

Tell us about your favourite BBS — e-mail Link Harris on FidoNet 3:690/660 or to link@wn.com.au

from domain names to custom-designed pages.

By the way, the site is designed by Webbods (www.webbods.com.au), a company which also did the enjoyable Scholastic site (http://scholastic.com.au).
URL: *www.ozpc.com.au*
Bandwidth: *Medium*
Best viewing: *Graphics-capable browser*
Rating: ★★★★

Year 2000

Survive 2000

Is your PC millennium proof? You've no doubt heard by now that the year 2000 is causing major headaches for companies with applications on large computers. Most of the noise about the 'millennium bug' or 'Y2k problem' has focused on mainframe computers. But that doesn't mean PCs are exempt.

This Australian site offers information about the impact of Y2k on PCs. You can download a program that will check to see if your PC will survive the big 2000 (the initial version is free; there's a more complete version for sale). It also has an extensive set of links to Y2k sites. Ignore the militaristic style and go check it out for the content.
URL: *www.survive-2000.com*
Bandwidth: *Low*
Best viewing: *Any browser*
Rating: ★★★

Fonts

Font Kingdom

Ever wanted to write in Bajoran? Or maybe Grunge is more your style? Now's your chance.

If you subscribe to the "there's no such thing as 'enough fonts'" school of thought, then Font Kingdom is sure to delight you. This Australian site features an extensive collection of high quality fonts. You'll find everything from the elegant Dorovar to the unabashedly outrageous Bizarro. If you get stuck installing your fonts, check out the Help Desk.
URL: *http://homepages.tig.com.au/~muzzle/fontk*
Bandwidth: *High*
Best viewing: *Graphics-capable browser*
Rating: ★★★★ ❑

Best of the Net

PC User Offline's weekly Best of the Net column keeps you up-to-date with the latest — and best — computer news, sites and downloads on the Internet.

These are the sites we covered last month. Visit www.pcuser.com.au for more information.

- **Internet Explorer 4 — the real version:** www.microsoft.com/ie/ ie40/download
- **Amazon:** www.amazon.com
- **AOL in Australia:** www.aol.net.au
- **Nortel of Canada:** www.nortel.com
- **Norweb Communications:** www.norweb.co.uk
- **Telstra float:** www.telstrashares.com
- **Telegroup:** www.telegroup.com
- **Microsoft under fire from the US Justice Department:** www.zdnet.com/zdnn/special/msdoj.html
- **Quake II:** www.idsoftware.com/quake2/demo.html

Question time!

Readers' questions

Fragments of trouble

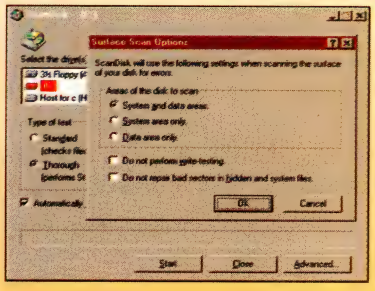
Q: I have run into some serious trouble with Defrag. I have three logical drives over two physical disks on my computer and the end of drive D: has got quite a few bad clusters. I tried to run Defrag, and it came up with a rather worrying message: "Windows cannot defragment this drive because it contains errors that must first be repaired, etc . . . ID No. DEFRAG004". It then asked me to run ScanDisk, which I promptly did, but to no avail. I keep getting the same message time after time, and I'm starting to get worried as the drive is 14 per cent fragmented. Can you please help? I've included a full system report.

Alberto Reig
Via Internet

A: *Your ScanDisk needs to be set for Thorough (Surface Scan). It may also be set to NOT cure bad sectors; the picture below shows you the right settings, including the ones on the Advanced button. If this still fails, the sure-fire cure is to reformat the offending partition after moving all the files you want to keep; the FORMAT utility detects the bad sectors and locks them out of the file system.*

PS: So much for the right method. Alberto tells me he already tried this, and then along comes his brother and runs the non-thorough setting — and it works like a charm. A clear case of what we Swedes call "the Law of the General Perversity of Inanimate Objects" . . .

ScanDisk settings



Setting up ScanDisk for a 'Thorough' surface scan is the correct method, however failing that, the 'Standard' setting can work like a charm.

Yummy cookies

Q: When I voice chat, it seems that I can hear the other party but they cannot hear me. I went into Control Panel, Multimedia and found a volume control for the microphone. For some reason this setting is shaded and I cannot adjust the level. Could this have any bearing on the problem? By the same token, if I touch the microphone, I can hear the rumble on my PC speakers.

Also, can you please tell me what 'Cookies' are on the Internet? Messages keep popping up. What do they mean and represent? Could they be viruses?

Finally, I use McAfee Virus Checker and I believe that it checks the Net before I download any files. Is this correct?

Joe Pavia
Via Internet

A: *Sorry, but I can't help you with your sound problem — there are too many possibilities, such as an application problem having overwritten Windows settings, and I don't know enough about your system. Certainly the greyed-out option means that that particular bit of software isn't working. All I can suggest offhand is that you reinstall Windows and make sure you check the sound options.*

Cookies are little text files that are stored by your browser (if it's Internet Explorer, you'll find a folder called \Windows\Cookies. You can open the cookies in Notepad and read them. They typically contain a list of the choices you made when you last visited the site that handed out the cookie, and the idea is that the site reads its cookie the next time you visit and presents you with the settings you used last time (such as, Text Only) or lets you in without a password because you're on its little list.

Having a computer-related problem?

PC User's technical editor, Jan Wikström, may be able to answer your queries in print.

Be sure to include your name and address and as much detail of your system as possible to assist in the solution; you should include an MSD report or a System Summary. MSD (Microsoft Diagnostics) is a DOS utility and part of DOS and Windows 3.11 and the System Summary is generated by the Print button in Windows 95's Control Panel, System, Device Manager. There's a trick to the System Summary: the file it creates is a coded printer file. If you install the default Generic/Text Only printer, the file will be plain ASCII text.

Please note that personal technical support cannot be provided, and not all queries may be answered.

If your problem is urgent, you should contact the supplier or retailer of the offending product.

Jan Wikström

Post details of your problem to Jan Wikström, PC User, GPO Box 4088, Sydney 1028; fax to (02) 9267 4909; or e-mail to janw@acp.com.au

No, cookies are not viruses — only files that run as programs can be.

As for your last question, no virus checker scans a file before it is downloaded; the file has to become accessible to the scanner first. It is theoretically possible to scan the file as it comes in, but all AV programs I know scan only when the download is completed. McAfee is, incidentally, the only program that was graded "fail" in my last anti-virus comparison.

Me no speaka dat

Q: I have recently purchased and installed MS Office 97. Although I am happy with all of the applications, I have got a problem with the language setting used by the applications for spell checking purposes. My problem is that no matter what I do, the language always reverts back to English US and not English AUS (Australian).

I have tried the following:

1. Set the Regional Setting in the Win 95 Control Panel to English (Australian) before installing Office 97 (otherwise it will not give you a choice of languages to install).

2. In MS Word — Tools, Language, English Australian, Set at default.

3. Opening Normal.dot, selecting all and then setting the language to English Australian.

4. Did a search for US in the Win 95 registry. I found the code for English US was 00000409 and that the Australian was 00000C09. I changed all the occurrences of the US code with that of the Australian code.

I am at my wits end. Every time I create a new document in Word, PowerPoint, etc the language is always English US. Have you got any suggestions?
Hans Geissler

A: *According to Microsoft Technical Support Document Q150613, this is a bug that can be corrected with Service Release 1 (Office 97 SR-1), which is available from Microsoft's Web site. It's well hidden, but if you look up document Q172475, it contains a hot link to the patch file. Oh, and for goodness' sake restore your Registry before you install the patch!*

Stuck with 'em

Q: I was just wondering (after reading an article concerning conventional memory) what exactly "vmm32" and "system" are and how to reduce the size of them?
Simon Lai
Via Internet

A: *Sorry, don't know which article you mean. As for the two items you mention, which I assume are tags in MEM, they are parts of Windows 95 itself and the only way to get rid of them is not to run Windows.*

Protocols in peace

Q: I saw on page 75 of your May '97 edition a picture showing network protocols/properties with:

TCP/IP>Dialup Adaptor
NetBeui> Dialup Adaptor
NetBeui> the network card used.

Does this help with protocol conflicts and how do you do that?
Dudley Ford
Via Internet

A: *The two top lines appear when you create a dialup networking connection, the third appears when you set up a Windows 95 peer-to-peer network. You can add further protocols by means of the Network icon on the Control Panel, but there's no point in doing so unless the protocol concerned is used by at least one other machine you're connected to. For example, TCP/IP is used by Internet servers and NetBeui on the Dialup Adaptor is of use only when you dial up a server that uses Windows peer-to-peer networking. If you don't intend to do that, you can delete that stack. Protocol conflicts are something I've had no experience of; all my networks have been as smooth as a salesman's spiel. The downside is that I don't know how to fix them; the upside — hey, how much upside can you handle?*

$50 for your tips!

Discovered a great tip? Why not share it with other readers and earn some money for the trouble? We're offering readers $50 per tip that we publish. Please keep the tip to less than 250 words (the shorter the better), and screenshots are most welcome in bitmap format (.BMP).

Just e-mail the tip to janw@acp.com.au or post it to Jan Wikström, PC User, GPO Box 4088, Sydney 1028 (please include a printout, an electronic version in ASCII format on a 3.5in floppy disk, and a stamped self-addressed envelope if you want the disk back). Payment will be made within a month of publication.

Right tool, easy job

Q: I guess this is a simple problem with a simple answer, but I just can't figure it out. I was playing around with desktop themes, something I have not done before. I downloaded one and a program that would install it for me. Everything went fine but I was not happy with my new desktop and missed my old one, so I fixed that problem okay and got my old desktop back with one exception: I am missing the Recycle Bin, My Computer and Network icons on the desktop. The applications still work fine but instead of the original icons, I have in their place the little white page with the red, yellow, green and blue windows picture.

I have looked for them and although I know they are in there somewhere, I am just not sure where. I hope that you can help me or tell me where I can find this information.
Michelle Rundle
Bayswater, Vic.

A: *For a change, there's an easy solution. Install TweakUI from our CD; it's one of the PowerToys. It will appear as an icon on the Control Panel, and when you start it, it'll let you do some delicious things to your User Interface (UI,*

$50 reader tip

Hard drive icon

I was playing around with Windows 95's autorun feature and discovered that you could use it to give a hard drive its own unique icon. To do this, first find/make the icon you'll use for the drive. It's best to copy this file to the root directory of the drive although it's not necessary. Next create a new TXT file in Notepad and enter the following:

```
[autorun]
ICON=<icon name>
```

where <icon name> is the name of the icon file (including path if necessary).

For example, ICON=XXXXX.ico if the file is in the root directory, or ICON=X:\XXXXX\XXXXX.ico if located elsewhere.

Save this file in the root directory of the drive with the name: Autorun.inf.

To view this change straightaway go to My Computer and press F5 to rescan the drives. Your selected icon should now be displayed.

This not only affects the drive's icon in My Computer but also any shortcuts made to the drive, including those on the desktop and in the Start Menu.

Brae Charles
Wodonga, Vic.

Clever trick, Brae — and one more blow struck for individuality. — Jan

get it?). One of the features is the Repair tab, which among other things, has a Rebuild Icons button; that's just what you need.

That 520 limit

Q: Could you shed some light on the ability to install a 2.5Gb hard drive on my DX2/66 computer? I currently only have a small 115Mb and continually run out of space. I have heard I can only go to 500Mb — is this true?
Trevor via Internet

A: *DOS 6.x can handle partitions up to 520Mb, but there are memory managers that let you run bigger than that. However, that applies only if your BIOS can comply with the required operating mode. Likewise, Windows 95 can handle partitions up to 2Mb — but only if the BIOS is up to it. Your 486DX2/66 is at the age where it may have a competent BIOS or it may not. There's a way to find out: start your CMOS setup program and check if the IDE (hard disk) controller has an option for LBA (logical block addressing). If it has, activate it and install your hard disk. If it doesn't — sorry, your options are limited to two hard disks below 520Mb or a motherboard upgrade.*

In the meantime, you can always run DriveSpace and get another 115Mb effective space.

Netting printers

Q: I am wanting to network 15 PCs (Windows 95) so that they can all access our three laser printers. This is the only reason we currently want them to be networked; we are not overly concerned about info sharing at the present time, though it would be a bonus.

Our main concern is to keep the expenditure to a minimum to achieve our main objective.

Is there an archived article or a Net site that you are aware of that will assist me in this process? I have a reasonable understanding of hardware and upgrading PCs from years of reading your magazine and playing around with my own system. This is, however, my first attempt at networking. I understand Windows 95 has some in-built capability to network.
Roger Guilleaume
Via Internet

A: *Sure, Roger. You'll need one (basic, inexpensive) Thin Ethernet network card for each PC and enough coaxial cable with a T connector for each PC (don't forget a terminating resistor for each end machine in the daisychain). It's a good idea to look in Control Panel, Install New Hardware, No, Network Adaptors for a list of the cards Windows 95 has built-in drivers for.*

You install the card like any other hardware. The next step is to install Microsoft's NetBEUI protocol and the client for Microsoft Networking — both included in Windows 95 through Control Panel, Network. Make sure you use the same Workgroup name for all machines.

Once the network is up and working, you can install the printers via the network to all the machines; Windows 95 Help contains instructions. Physically, the printers are installed on single PCs via printer cables in the usual way. I'd suggest putting the printers on those machines that have the least demanding use because of the processor time that will be devoted to printing, and ***don't use fancy screen savers****. Full-motion screen savers tend to take 100 per cent processor time, so the printer users will have a hard time getting a word in edgewise. You can tinker with multitasking priority assignments, but the simplest solution is to use the Screen Blanker; it's the best screen saver and takes no resources at all.*

Poison . . .?

Q: I have e-mailed you before saying that my computer hates the monthly CD-ROM supplied with your magazine.

When I say that "it slows or crashes" I mean that the browser runs very slowly, and when I exit the browser I find that Windows Explorer runs very slowly. (I don't normally run other applications at the same time.)

Also when using the Add New Software Wizard, it takes minutes to find the setup.exe program on the CD, not to mention the extra time wading my way through to the correct folder and application.

When I eventually get there, I am told that "This application is not a valid Windows program" and/or that "You do not have enough memory to complete this operation".

(After restarting the computer this works fine, as long as I don't start the browser again.)

I can use the CD properly, however, when I use the IE application from my hard disk, and pointing to the index page, everything works correctly.

I have a P166 MMX, with 32Mb of RAM and a 20-speed CD-ROM drive.
D. McCosker
Via Internet

A: *If I understand you correctly, the Internet Explorer from the CD acts crippled and even "poisons" your normal Windows Explorer. I'd guess that there is some file or configuration detail that clashes with the version you have installed on your hard disk. Since that works properly, the solution is simple: don't run IE from the CD but use your hard disk version. It'll start faster and run better anyway.*

You mention that the installation routine seems very slow about finding things on the CD; there might possibly be a format incompatibility with the CD reader or a setup problem — but I can't comment on that because you haven't sent me the files I asked you for last time.

$50 reader tip

Spoken messages

This is a simple and fun tip to add a personal touch to your computer in Windows 95.

I like to record messages that automatically startup and play at lunchtime saying, "It's lunchtime" or an hourly voice saying "It is news time". It uses System Agent and Sound Recorder.

Problem: Sound Recorder when started doesn't actually play the WAV file until Play is clicked.

Solution: Add the parameter /play, ie "sndrec32.exe /play lunch.wav" to self play.

Action: Record a message in Sound Recorder. Save it as a file. Right-click System Agent on the Taskbar, open it, (or start it from Accessories) and select Program, Schedule a new program. Type c:\windows\sndrec32.exe /play [your WAV file] in the program box, and then select your starting time.
Steve Parker
Belrose, NSW

That's a fun one, Steve — and it's not in the manual, either. Now for an encore, how about making Sound Recorder go away after it's finished: after /play, add the switch /close, as in "sndrec32.exe /play /close [your WAV file]". — Jan

How high my hazard?

Q: Jan, when I followed your instructions on page 85 of the June '97 edition and set my swap file to 48Mb (I have 16Mb of RAM), Windows warns I may not be able to restart. Is it bluffing? I chickened out and went back to letting Windows set the swap file.

I have a 486 with 16Mb of RAM and an 850Mb hard disk drive.
Hetty via Internet

A: *It's true that you might not be able to restart. It's also true that you might be hit by a meteorite the next time you go outside . . .*

If you did have trouble restarting, and I have never heard of a case, you can reboot with your emergency floppy (Startup Disk option in Control Panel, Add/Remove Programs) and rename the two Registry files. Here's a how-to excerpt from my August Window 95 column for any Registry malfunction:

Windows fails to complete its normal boot process when you start up. You may get a message that the Register is damaged and should be restored from a backup, or the system may simply hang with a blank screen. You may then feel like shrieking and tearing out your hair (guess why I'm bald), but fret not: there's a very simple cure.

1. Dig out your trusty rescue disk that you made with Control Panel, Add/Remove Programs, Startup Disk, shove it in and start again.

2. Log on to the Windows folder with CD\Windows.

3. Delete system.dat and user.dat. You won't see them in DOS mode because they have the "hidden" attribute set, so change that first:

```
ATTRIB –R –H –S SYSTEM.DAT
ATTRIB –R –H –S USER.DAT
DEL SYSTEM.DAT
DEL USER.DAT
```

*4. Rename copies of the automatic backups *.DA0 with*

```
ATTRIB –R –H –S SYSTEM.DA0
ATTRIB –R –H –S USER.DA0
COPY SYSTEM.DA0 SYSTEM.DAT
COPY USER.DA0 USER.DAT
ATTRIB +R +H +S SYSTEM.DAT
ATTRIB +R +H +S USER.DAT
ATTRIB +R +H +S SYSTEM.DA0
ATTRIB +R +H +S USER.DA0
```

Now take the floppy out and reboot. ❑

Shareware

Angela Booth finds shareware for Windows 95, 3.1 and DOS to suit all tastes.

Windows 95

Expeditor

URL: *www.superwin.com/expedite.htm*
Registered price: *$40*
Rating: ★★★★★

Expeditor takes the grind out of repetitive tasks, chiefly online tasks, although you can use it anywhere.

It contains two sections: the Editor and the GoTo List. The Editor contains user-defined text that you can insert anywhere simply by double-clicking. The GoTo List is a list of Web sites and e-mail addresses arranged in folders. Double-click on an entry in the GoTo List to go to that Web site or send a mail message.

TextPad 32

URL: *http://www.textpad.com*
Registered price: *$40*
Rating: ★★★★★

TextPad is an award-winning text editor with loads of intelligent features. It's available for both Windows 95 and 3.1.

Enhancements in this new version include: automatic file backups; a Revert command, to revert to the last saved version of the document; word count; a clip library for boilerplate text and HTML tags; save your workspace; visible bookmarks; a built-in file manager; DDE interface to other tools; and a spell-checker with dictionaries in 10 languages.

3DShellArt

URL: *http://home.global.co.za/~olivierd/imaginary*
Registered price: *$12*
Rating: ★★★★

If you're tired of your desktop icons in Windows 95, let this program jazz them up for you. The icons it provides have a 3D look and are 256-colour. It replaces all desktop icons, as well as the icons in Windows Explorer. Until you register, you'll see a small red "R" attached to each icon. Registration unlocks more capabilities and more icons, and you can download others for free.

IconEdit Pro

URL: *http://pcwww.uibk.ac.at/subz/c40551*
Registered price: *$15*
Rating: ★★★

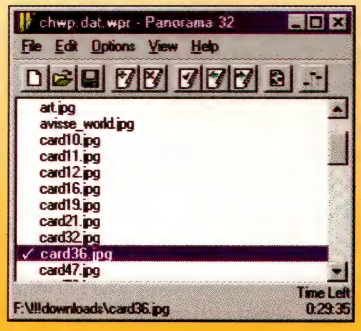
This program is a powerful icon editor and browser. You can work with icons of 256 colours, edit several icons at once, and have three levels of undo in case you change your mind. The program locates icons in EXE and DLL files, and works with BMP and RLE formats, as well as accepting icons captured from your screen. If you're artistically inclined, you can create 3D icons. In addition, the program boasts complex drawing features.

Panorama 32

URL: *http://www.ivory.org/free.html*
Registered price: *Freeware*
Rating: ★★★★★

This free gem of a program scans your hard disk for graphics files, then changes your wallpaper at intervals that you select, varying from every second to every 24 hours. You can of course hand-select the images you want to use. Many graphics formats are supported. You also have the option to tile images under a certain size.

Random wallpaper



Panorama 32 changes your wallpaper at selected intervals — and it's free!

Flashview

URL: *www.hotfiles.com*
Registered price: *$20*
Rating: ★★★★★

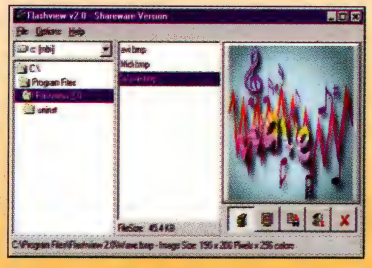
Flashview is useful because it handles so many multimedia formats, including ART, BMP, CUT, DIB, EFF, GEM, GIF, HRZ, IFF, IMG, JPG, LMB, MAC, MSP, PCX, PIC, PNG, RAS, RLE, TGA, TIF, WMF, WPG, WAV and MID. Sporting an Explorer-like interface, it's very easy to use, so you simply select files, and the right pane of the split window shows a thumbnail view — or you can view images full size. You can access Flashview with a right-click of your mouse button from Explorer, too.

RapidReader

URL: *www.shareware.com*
Registered price: *$25*
Rating: ★★★★★

RapidReader is a speed-reading program suitable for both children and adults. It presents text in two modes, the first where your eyes are trained to assimilate text rapidly without altering focus, and the second where your eyes are trained to scroll text as they do nor-

Over 20 file formats



Supporting most formats, Flashview is a powerful multimedia viewer.

mally, but at higher speeds. You can track your progress with the speed/comprehension tests that are provided.

QuikLink Explorer Gold

URL: *http://quiklinks.com*
Registered price: *$25 (freeware available)*
Rating: ★★★★★

QuikLink Explorer Gold is an Internet information manager for Windows 95 available in various versions, including a freeware, advertiser-supported edition. Basically, the program is a bookmark manager with an interface similar to Windows Explorer. You organise your favourite sites by creating and nesting folders: reorganising them is simple, you can drag-and-drop, or you can cut and paste. You can import your bookmarks' lists from any of the popular browsers, keeping the organisation system which you already have.

Classified 97

URL: *http://www.windine.com*
Registered price: *$22*
Rating: ★★★★★

Classified 97 is a journal, password keeper, electronic safe and goal manager all-in-one. Great features include: the ability to encrypt files created with other programs, enhance your journals with OLE links, access the Web by clicking on inserted URLs, transfer selected information to a 'public' journal that others can access, and much more.

Windows

Above and Beyond 4.0

URL: *http://www.1soft.com*
Registered price: *$125*
Rating: ★★★★★

This new version contains many enhancements, including the ability to insert interruptions to your schedule as they occur, and an increase in the Item Notes size to 32Kb. The program works in Windows 3.1, 95 and NT, and is completely network-aware.

If you're focused on time management, Above and Beyond is still the only program that features "dynamic" scheduling; in other words, your schedule updates automatically as you juggle appointments and tasks — the program will even automatically split a lengthy task over several days.

OrnaMental TrueType Font

URL: *http://www.comptechdev.com/cavop/aoe*
Registered price: *Freeware*
Rating: ★★★★★

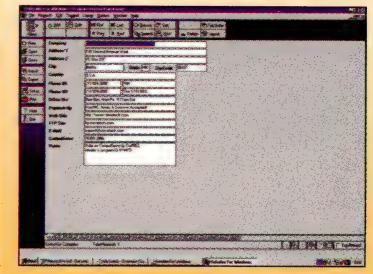
If you're making your own Christmas cards this year, try out this TrueType font. It's designed to look like black type etched on white Christmas tree ornaments — a very cute effect.

Label Graphics Collection

URL: *www.hotfiles.com*
Registered price: *$10 per set; $65 complete collection*
Rating: ★★★★★

Add Christmas spirit to your mailings with this graphics collection. However, you can use it throughout the year because there are 11 sets in total. The small pictures in PCX format look superb, whether enlarged to fill the page, or reduced to use on labels. The collection includes sets of pictures of animals, workers, kids, flowers, and more.

Data manager



InfoDex for Windows is a simple but powerful flat-file database manager.

InfoDex for Windows

URL: *http://www.stsi.com*
Registered price: *$55*
Rating: ★★★★★

InfoDex is a simple but powerful flat-file database. You can use it to store contact information, equipment data, reference material, customer information, passwords, and more. It features a drag-and-drop layout, sort by any field, add or delete fields easily, search in any field, tag records and much more. You can browse your records, create customised printing options, and print preview.

Oasis

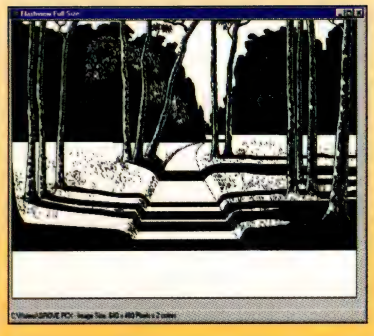
URL: *http://www.owlsoftware.com*
Registered price: *$85*
Rating: ★★★★

Oasis (OWL Automated Sales and Invoicing System) is an organiser and billing manager for small businesses. It tracks many different types of information — on your customers, your products, and your receivables.

Simply set up your customer profiles, your product information, and start using it to create invoices. Various reports are supported, both to file and to your printer. You can also print labels and envelopes, and manage your mailing list from within the program. Oasis uses standard DBF files, so you can integrate it with your other programs.

You receive an expanded feature set when you register.

Hand-drawn clip-art



Softscene features a selection of hand-drawn, black and white outdoors images.

Christmas Scenes Screensaver

URL: *www.hotfiles.com*
Registered price: *$35*
Rating: ★★★★

Christmas Scenes Screensaver features several 24-bit photographs. These are cycled with transition effects, and a red and green border. If you have a soundcard, you can listen to Christmas carols from MIDI files. Registration adds more images, more carols, and password protection.

DOS

Softscene

URL: *www.hotfiles.com*
Registered price: *$13*
Rating: ★★★★★

If you're looking for something different in clip-art, this program offers a selection of hand-drawn, black and white outdoors images — perfect for your next newsletter. You can enlarge or shrink the images to suit your needs without discernible distortion. The images are in PCX format.

Crossword Power

URL: *www.shareware.com*
Registered price: *$60*
Rating: ★★★★★

If you're a puzzle addict, or if you need to create 'fun' pages for your company newsletter, this program is perfect for you. Crossword Power creates and prints both crossword and cris-cross puzzles. All you need to do is supply the words and the clues — the words are automatically placed into the grid for you. Sample word lists are included, as is a 30-page manual.

OutlinePlus

URL: *www.shareware.com*
Registered price: *Freeware*
Rating: ★★★★★

OutlinePlus is an integrated outliner and text editor. You can create fast outlines to various depths, adding notes as you go. You can use the program to create plans for your documents and activities, and as a schedular. The program comes with a 55-page manual, completely describing the program and its many uses.

Try before you buy

This shareware and freeware is on this month's CD-ROM. See page 3 for details.

Australian Offline PC User

Bug patrol

Rose Vines finds bugs and provides fixes and workarounds for your favourite applications.

Office 97

No preview

Microsoft Office applications have a nifty feature in the File Open dialogue box that lets you preview a file before opening it. The trouble is, the preview box often displays no more than a message saying "preview not available". In Word, you'll at least see some of the document's text; in applications such as PowerPoint and Excel, you won't see a thing.

This is not a bug; rather, it's very poor design on Microsoft's part, which you can rectify by doing the following:

1. First, make sure you can see the preview box in the Open dialogue box by choosing File, Open from an Office application, and then clicking the Preview button near the right-end of the toolbar.
2. Now, create a new document, or open an existing document.
3. Open the File Menu and choose Properties to display the Properties dialogue box.
4. In the Properties dialogue, make sure you have the Summary tab selected and then place a tick in the Save Preview Picture box at the bottom of the dialogue. Then click OK to close the dialogue.

This will add a preview picture to the file, which will be updated whenever you save the document. You'll have to go through the same procedure with each file you save, as by default this setting is not selected.

If you want to ensure you save previews for all your files — particularly useful in a program such as PowerPoint — you can get the application to prompt you for document properties information. To do this:

1. Open the Tools Menu and choose Options to display the Options dialogue box.
2. In the Options dialogue box, click the Save tab.
3. Place a tick in the Prompt For Document Properties box and click OK.

With Microsoft Word, you may find it more useful to save previews only for

those documents which have distinctive formatting; for standard text documents the lack of a preview can be useful as Word will display the document's actual contents (rather than a thumbnail graphic) when a preview is not available.

WordPerfect 8

Grammatical error

WordPerfect 8's grammar checking program, Grammatik, may lock up your system if you run a grammar check with the Check Headers, Footers, Footnotes option turned on, regardless of whether your document contains any headers or footers. The only way around it is to clear this option before performing any grammar checks. To do that, open Grammatik (do it in an empty document), click the Options button and then make sure there's no tick beside the Check Headers, Footers, Footnotes option.

HP DeskJet 820Cse

Print queues and crashes

The Hewlett-Packard 820Cse is a lovely little printer — there's one sitting on my desk right now — but it has the unfortunate tendency to stall, sometimes causing your computer to crash, if you queue more than one job at a time. It's a problem with the driver, version 8.20, which ships with the printer. To recover, you either have to exit from the program you're working in and close the printer window, or restart your machine.

HP is aware of the problem and promises a fix in the next version of the driver. You can check HP's Web site (www.hp.com/cpso-support/faq/deskjet.html) to see when it's released. In the meantime, you can avoid problems by making sure the current print job has finished printing before sending further print jobs.

WinZip

Service Release

Nico Mak Computing recently released an upgraded version of its compression program, WinZip (one of our favourites at *PC User*). Version 6.3 tweaked the Internet features of WinZip and added a few extra touches. However, it also introduced a bug which can cause file corruption in very rare circumstances, usually when adding files zipped by another program under OS/2.

Even if you don't appear to be having problems with WinZip, you should get yourself a copy of Service Release 1, which fixes the bug. We've included it on this month's PC User Offline CD, or you can download it from www.winzip.com. You can check which version of WinZip you're currently using by opening the program and choosing About WinZip from the Help Menu. The latest release is labelled WinZip 6.3 SR-1.

Norton Utilities & removable drives

Problems with Iomega and SyQuest drives

Iomega Zip and Jaz drives and SyQuest EZ135s don't always coexist peacefully with Norton Utilities 2.0. In particular, you may get NPROTECT or other errors when you're booting.

You can get around these problems by ensuring there's a disk in the removable drive before you boot your computer. There are also some less adhoc solutions you can try, the first of which is to turn off interrupt handling for the drive. To do this:

1. Open the Start Menu, Settings, Control Panel and double-click the System icon. This opens the System Properties dialogue box.
2. Click the Device Manager tab in the dialogue box, locate your Zip or Jaz drive in the device list under disk drives and double-click it to display its Properties dialogue box.
3. Click the Settings tab and uncheck the Int13 box if it's available. Reboot if instructed to do so by Windows.

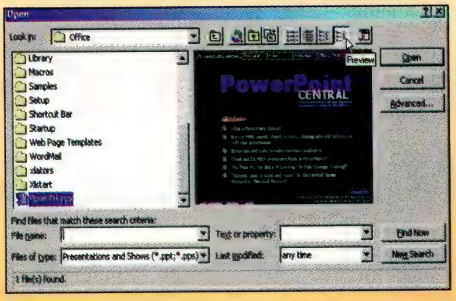
Note: If you're using the internal removable drive as your boot drive, *don't disable INT13* for that drive or it will no longer be bootable.

If the INT13 box is unavailable in Step 3 above, you'll need to contact your computer manufacturer or hardware support and get assistance in removing the removable media drive from the CMOS information on your computer. In the BIOS, prevent the removable media drive from being auto-detected by selecting *disabled*. The drive will still function and will be seen by Windows 95 system as removable media.

If you still have NPROTECT errors, try this:

1. Right-click the Recycle Bin and choose Properties to display the Recycle Bin Properties dialogue box.
2. Select the Norton Protection Tab.
3. Uncheck Enable Protection for each drive on your system.
4. Click OK and reboot the system.
5. When Windows restarts, go back into the Recycle Bin Properties and replace the checkmarks. ❑

File preview



By default, Office's Preview feature is turned off in its File Open boxes. Switch it on to quickly see what's in a file prior to opening it.

WinZip 6.3

On this month's *PC User Offline* CD you'll find WinZip 6.3, Service Release 1. We're also including the Internet Browser Support add-on, so you have the complete WinZip kit. There are versions of WinZip and the add-on for Windows 95 and NT (winzip95.exe and wzinet95.exe) and for Windows 3.1x (winzip31.exe and wzinet31. exe).

That's Debatable:

My word processor is better!

Word 5.0 for DOS vs Word for Windows 2.0. Rose Vines and John Hilvert debate.

JH: I know I'll get bagged for this, but I've always regarded a word processor as being one of the sillier reasons to opt for a graphical user interface like Windows. Microsoft peaked with Word 5.0 for DOS in my view. It had it all. Stylesheets, macros, hot key previews, dictionaries, thesaurus, outliners and glossaries. It could run under Windows — actually sharing the clipboard. You could run the entire program from a 1.44Mb floppy and save files as well. Then along came lumbering Word 1.0 for Windows; Word 2.0 was a tad better and we then jumped to Word 6.0 — with a new file format and ever more elephantine file sizes. With Windows 95 we got Word 95 — which everyone agrees was a dog and now Word 97, which only performs respectably on a 16Mb Pentium II. You can do cute things like multimedia and save in HTML — but I think Microsoft lost its way at Word 1.0 for Windows.

RV: I couldn't disagree with you more, John. I firmly believe WinWord 2.0 with its combination of power and ease of use was, in its day, the greatest application program ever written, and that Microsoft has managed to build on that foundation ever since. You're wrong about Word 95; it wasn't a dog, it just wasn't the big upgrade we hoped for. Word 97 fixed that and performs just fine on average hardware. Word 5.0 for DOS is totally clunky and anti-intuitive — just try training people how to use the damn thing! Like its equally gross competitor, WordPerfect 5.1 for DOS, it's the sort of program that could only be loved by someone who's gone through the exquisite torture of learning the thing and subsequently displays the stripes they earned in the process. The one thing I missed when we shifted from DOS-based word processors to Windows-based ones was the speed with which you could whip up a quick note. But it wasn't Word for DOS that I yearned for; it was a program like Qedit.

JH: Feature for feature Word for DOS did whatever Word for Windows could — but without the GUI. One of Microsoft's more sinister moves was to re-define what a word processor should be. Originally, word processors were a great advance because you could change copy without tearing up paper. You could fool around with italics and fonts, search and replace, check spelling, play with outlines and occasionally insert graphics. By making *everything* graphical, Word for Windows became the first bloatware. It's ballooned ever since. With the rise of e-mail, I'm finding people returning to some of the DOS word processor minimalism by writing productively in a simpler but most functional e-mail editor. If you want to write, just do it. Hey, I never cared for WordPerfect 5.1 either. However, I venture there are many readers that have coped with its learning curve and settled happily with WP 5.1 ever since.

RV: I think your phrase "coped with its learning curve" speaks volumes, John. There should be a bumper sticker for those who cling to such relics: "I survived learning my word processor (and I'll never do it again)". In some ways, I understand your stance entirely: you invested all that time in learning a DOS-based word processor, you're happy within its limitations, so why expend more effort upgrading? Where I take issue with you is in suggesting that Word for DOS is better than WinWord. That's not so: it's harder to learn, harder to use, far more limited in scope, devoid of most automation, and almost impossible to customise. So you can fit the whole program on a floppy. Whoopee! You may be championing the cause of those people with minimal and outdated hardware, but at the same time your anti-GUI position is elitist. GUI-based software makes computing far easier for the vast majority of users because it offers multiple ways of working with software.

JH: I'll grant the glitz of GUI can be seductive. But I find that paper white and black font screen distracting, slow to refresh and slow to save compared with (say) a gorgeous light grey lettering against minimalist blue background. You should try it and feel the speed — even on an old AT. Mileage may vary, of course.

RV: I can get the grey lettering on blue in WinWord (it's a setting in Tools, Options). WinWord is one of the best reasons for *upgrading* your hardware that I can think of. ❑

Strange site

Every Icon

URL: *http://stadiumweb.stadiumprojects.com/everyicon/eicon_title.html*

Every possible icon. Shown dynamically on one page. Think about it.

by Rose Vines

COMPUTE THIS!

by Rob Oxenbridge

Programmers at parties

Australian PC User
DECEMBER 1997

Showcase

Advertisers' Deals of the Month

PHILIPS 200MMX MULTIMEDIA PC

This latest release from Philips has unmatched quality and performance, with a 200MMX processor, 4.35HDD, 32Mb RAM, 15in digital monitor, 56Kbps modem, 24x CD-ROM, 120W speakers. The introductory price offer is valid to December 23.

Price: $2599

From: Hi Tech Express
Phone: 1800 062 674

See classifieds

COMPUTER ALARM

This latest computer theft deterrent is easily installed into any expansion slot of your PC. It is equipped with vibration and light sensors including its own seven-day battery backup. This key-activated alarm automatically arms and disarms itself when the PC is turned on or off and sounds its 110db siren if violated.

Price: $139

From: B.E.S.T. Computers
Phone: (02) 6947 3600
E-mail: best@tpgi.com.au

See classifieds

NET.MEDIC

The first 100 people who telephone Lan Systems to order Net.Medic will receive the product for $99 instead of $120.

Price: $99 (ex. tax)

From: Lan Systems
Phone: (02) 9901 3655
URL: http://www.lansystems.com.au

See page 9

BLADE RUNNER

From the creators of Red Alert comes Blade Runner, the world's first "living" real-time 3D adventure game.

Price: $89.95

From: Virgin Interactive
Phone: (02) 9417 1322

See page 7

GATEWAY'S G6-233

With an Intel 233MHz Pentium II processor, universal serial bus support and 512 L2 integrated cache, the G6-233 is backed by Gateway 2000 Desktop Warranty and Lifetime Hotline Support. Other features include 4Gb Ultra ATA HDD, Ensonic Wavetable Audio, minimum 12x/maximum 24x IDE CD-ROM, a 17in CS colour monitor, a 56Kbps data/voice/fax modem and speakerphone and Telstra's Big Pond Internet Kit with 50 hours free access.

Price: $3499

From: Gateway 2000
Phone: 1800 500 742
URL: http://www.gw2k.com.au

See page 33

PERSONAL TUTOR 'HIGH SCHOOL MATHS' ON WINDOWS

Here's a fabulous Christmas offer for *PC User* readers only to save $50 off the RRP of $275. Your home maths tutor for school Years 7-10. Named as Best Buy in 1997 Australian School PC survey.

Price: $225

From: Memory Banks
Phone: FreeCall 1800 622 657
Fax: (03) 9770 1402

See page 124

COMPUCON MULTIMEDIA PACKAGE

Multimedia PC including Intel 200MHz processor, 32Mb RAM, 2.1GbHDD, 15in monitor, 24x CD-ROM drive, 33.6Kbps modem, Epson Stylus Color 300 printer, colour scanner, videoconferencing kit and Internet ready.

Price: $2899

From: Compucon Computers
Phone: (02) 9417 7166
URL: http://www.compucon.com

See page 5

CYDEX INTEL PENTIUM MMX A33 SYSTEM

The Cydex Intel Pentium MMX A33 system comes with a fast 430TX motherboard, 32Mb SDRAM, 17in Acer monitor, Mystique 220 4Mb Video Card, AWE 64 and 24x CD-ROM. Individual configurations are welcome, with Internet online quotation available.

Price: $2450

From: Cydex Computers
Phone: (02) 9411 5088
URL: http://www.cydex.com.au

See classifieds

NTERNAL UPS 8 POWER SUPPLY

It's not just a UPS, but also a 300W power supply. The UPS is actually built into a standard size power supply and the batteries and front panel occupy a 5.25in floppy drive bay. The UPS is rated at 500VA.

Price: $399

From: Microgram Computers
Phone: (02) 4389 8444
URL: http://www.mgram.com.au

See page 81

MMX 200MHz SYSTEM

This MMX 200MHz system comes with a 512KVX board, 32Mb RAM EDO, 14in monitor, 24x CD-ROM, 16-bit sound, 4Mb video card, Win 95B, MS-pak and more.

Price: $1699

From: SCN Computers
Phone: (02) 4285 9344 or (02) 9559 2013
Web: http://www.scn.com.au

See classifieds

How to participate: The Advertisers' Deals of the Month page is open to submissions from all companies who take out at least one full-page ad in that edition of *Australian PC User*. For more information contact (02) 9288 9144.

DECEMBER 1997 - CHRISTMAS OFFERS

VISIO - Version 5

VISIO Standard	$225
VISIO Standard Upgrade	$159
VISIO Professional	$410
VISIO Professional Upgrade	$285
VISIO Technical	$445

NEW VERSIONS FOR WIN 95/NT

Microsoft Project 98
New version for 95/NT
Now In Stock!!
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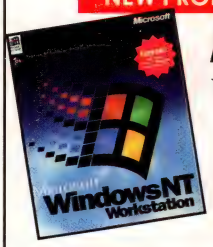

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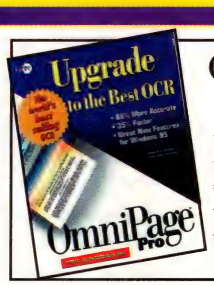

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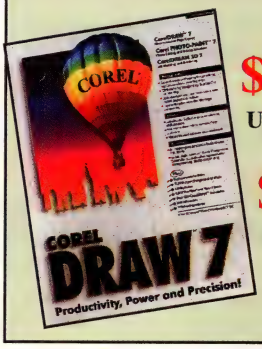

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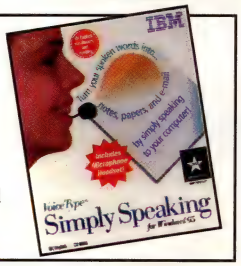

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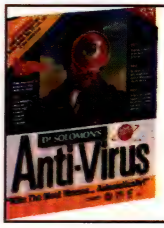

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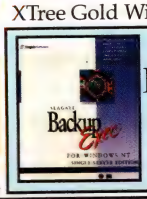

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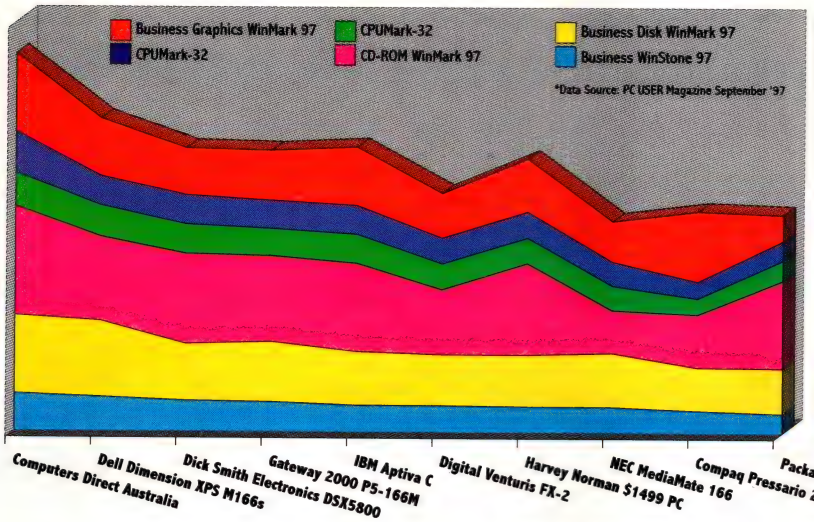

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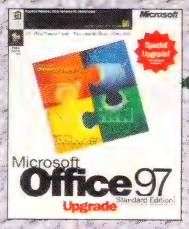

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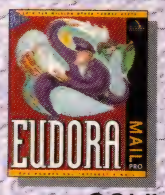

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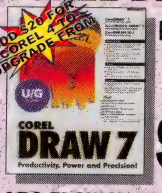

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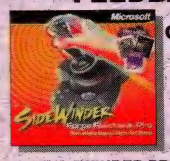

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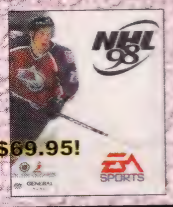

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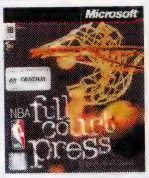

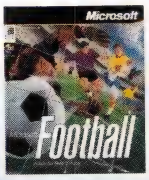

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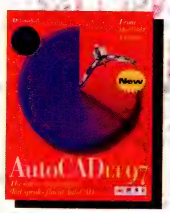

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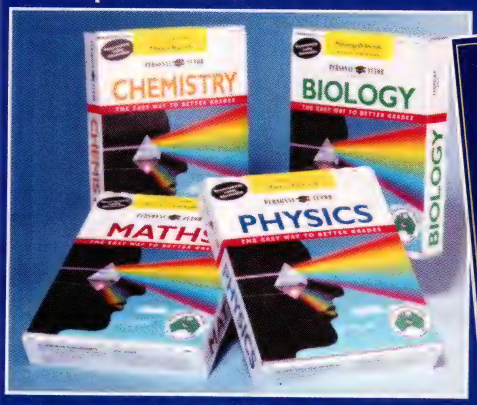

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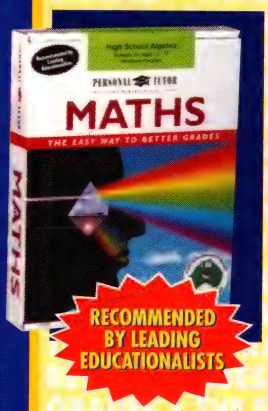

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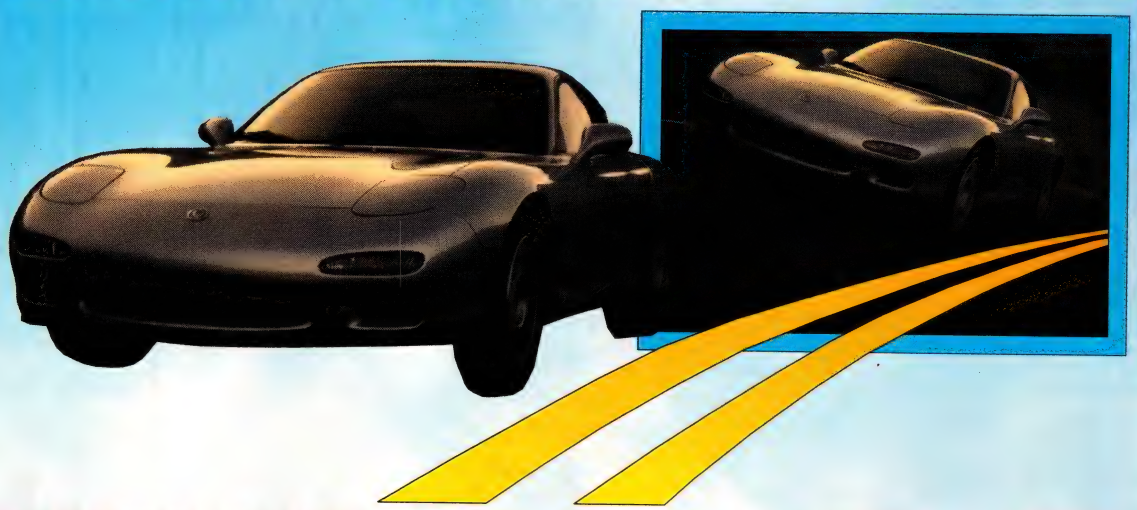

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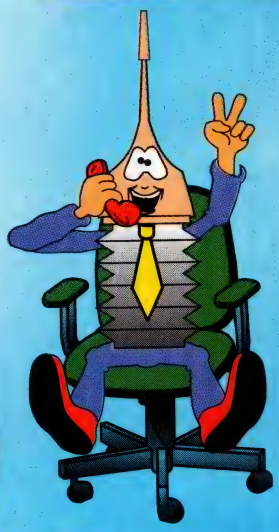

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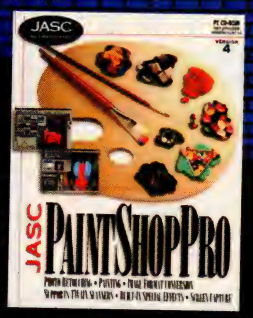

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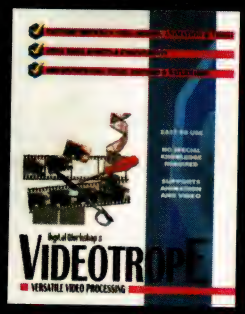

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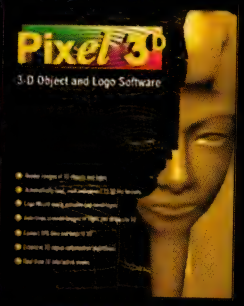

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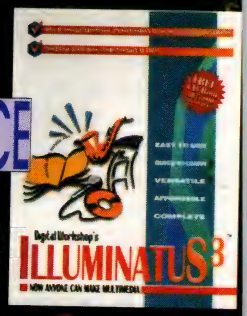

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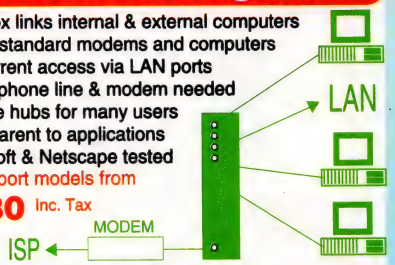

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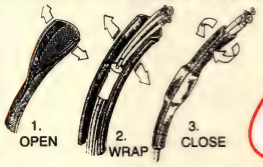

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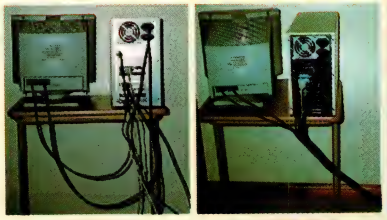

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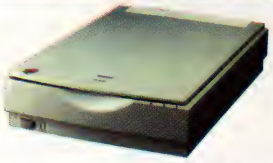

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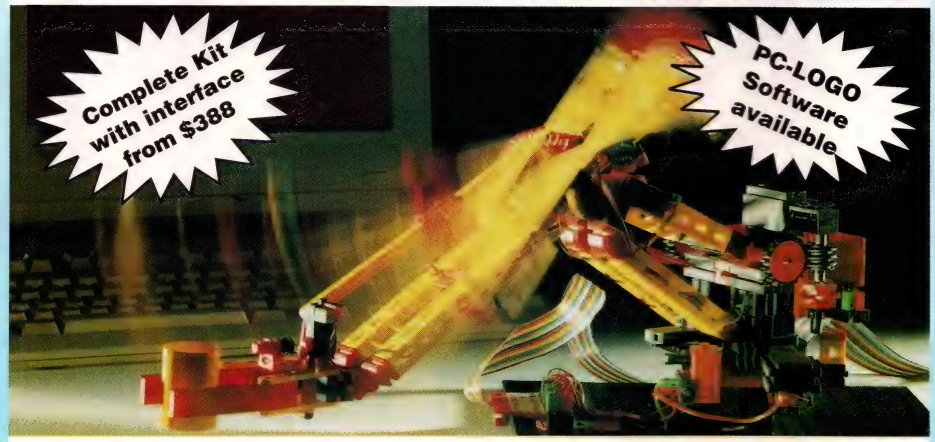

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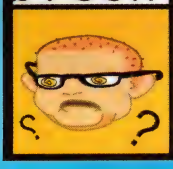

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General Manager
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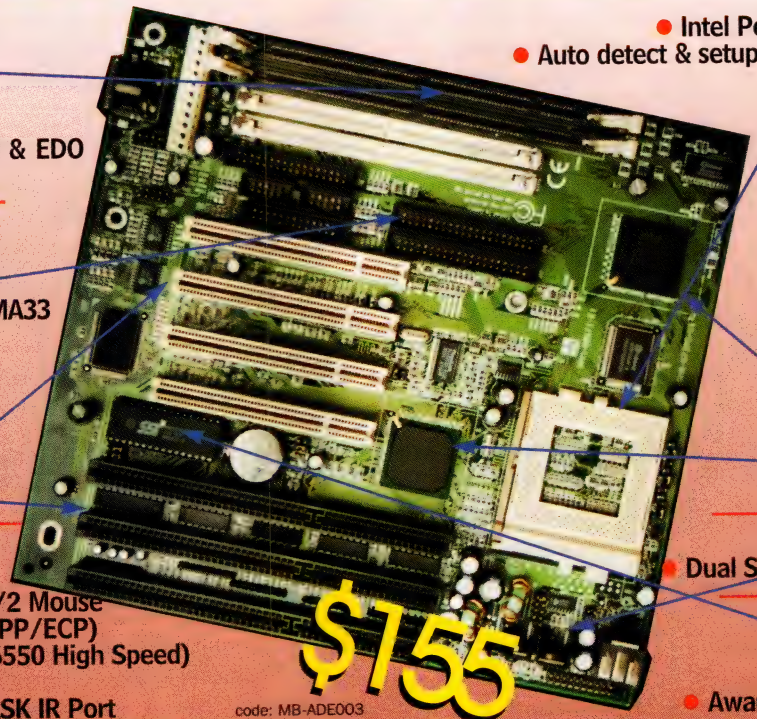

SYSTEM MEMORY
- 2 x 168pin 72bit DIMM modules
- 2 x 72pin SIMM modules
- Supports both FPM & EDO mode DRAM

PCI IDE
- 2 x PCI Bus Master IDE ports
- PIO Mode 3, 4, UDMA33 IDE & ATAPI CD-ROM

EXPANSION SLOTS
- 4 x PCI 32 bit
- 3 x ISA 16 bit

I/O INTERFACE
- 1 x Floppy port
- AT Keyboard & PS/2 Mouse
- 1 x Parallel port (EPP/ECP)
- 2 x Serial ports (16550 High Speed)
- 2 x USB sorts
- 115.2 Kbps IrDA/ASK IR Port

PROCESSOR
- Intel Pentium series up to 266 Mhz
- Auto detect & setup Intel P54C, P55C processor (MMX)
- AMD K5 and K6 (MMX) Processors
- Cyrix 686 (M1) & M2 (MMX) Processors

CACHE RAM
- 512KB PB SRAM

BOARD SIZE
- 22 x 24cm
- AT Form

CHIPSET
- Intel 82430TX

CPU POWER
- Dual Switching Voltage Regulators

SYSTEM BIOS
- 128KB Flash Rom
- Plug "n" Play
- Award BIOS with Green Features

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2) 2 x ADE Workstations with MS Windows 95
3) 8 Port Ethernet Hub
4) RJ45 Cabling

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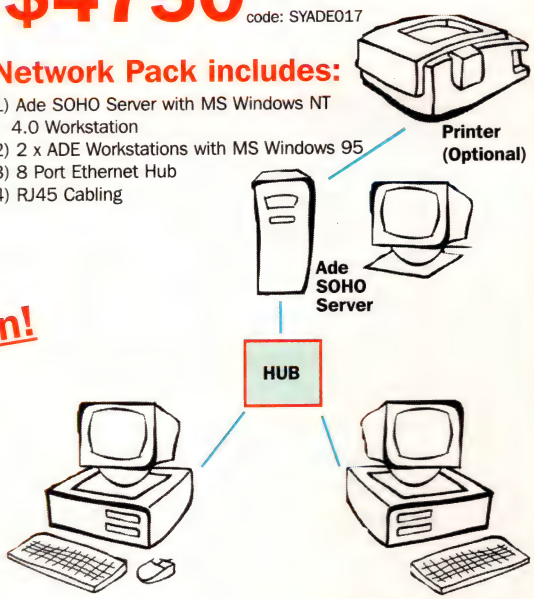

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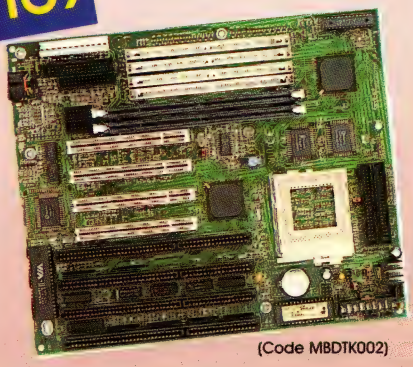

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DTK Pentium TX High Performance Mainboard PAM-0057I

PAM-0057I AT Pentium PCI/ISA. Intel 82430TX Chipset High Performance Mainboard

New Features
1. CPU/System Temperature Monitoring
2. Switching Voltage Regulator Support

System Processor
Intel Pentium, MMX series, Cyrix 6x86, M2 series and AMD K5, K6 series, up to 266Mhz

Cache System
Pipeline Burst Mode SRAM size 256/512Kb

Main Memory
1. Four 72-pin SIMM Socket, support both FP Mode DRAM Modules configuration up to 256Mb
2. Two 168-pin DIMM Socket, support 3.3V SDRAM configuration up to 256MB

Chipset
Intel 82430TX PCIset

Bios System
1. Award/AMI
2. Supports Flash ROM BIOS
3. Supports Plug "n" Play

Super I/O
SMC669 or Winbond W83877F

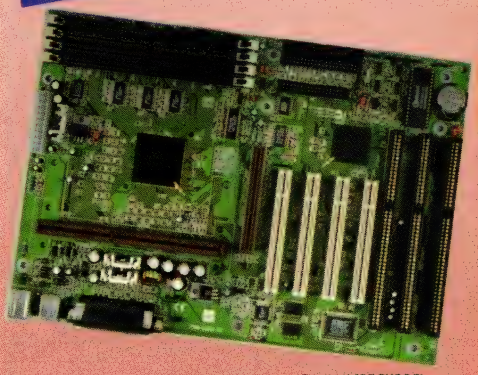
Multi I/O
1. On board Multi I/O supports two serial, one parallel port and floppy drive controller
2. Serial Ports are 16550 Fast UART compatible
3. Parrallel port has EPP and ECP capabilities

I/O Slots
1. Four 32-bit Master PCI
2. Four 16-bit ISA

PCI IDE
1. PCI Master IDE controller supports PIO Mode 3 and 4 devices, I/O data transfer rate can be up to 17Mb/s
2. Supports Ultra DMA33

USB
On board supports two USB ports for USB devices

$275



(Code MBDTK005)

DTK Pentium II LX Mainboard PRM-0076I

PRM-0076I PCI/ISA Single Processor ATX Format Intel 82440LX High Performance Mainboard

New Features
1. CPU/System Temperature Monitoring
2. Switching Voltage Regulator Support

System Processor
Intel Pentium II series, up to 300Mhz

Main Memory
1. Four DIMM Sockets, memory configurations up to 512Mb
2. Supports both Synchronous DRAM and EDO Mode Modules
3. ECC Function ensures data correction and integrity

Chipset
Intel 82440LX PCI set

Bios System
1. Award / AMI
2. Supports Flash ROM BIOS
3. Supports Plug "n" Play

Super I/O
SMC FD C37C672

Multi I/O
1. On board Multi I/O supports two serial, one parallel port and floppy drive controller
2. Serial ports are 16550 Fast UART compatible
3. Parallel Port has EPP and ECP capabilities
4. Irda Allows serial communication at baud rates of up to 4Mbps

I/O Slots
1. Four 32-bit Master/Slave PCI
2. Three 16-bit ISA
3. One 64-bit AGP(66Mhz)

PCI IDE
1. PCI Master IDE controller supports PIO Mode 3 and 4 devices, I/O data transfer rate can be up to 17Mb/s
2. Support Ultra DMA33

USB
On board supports two USB ports for USB devices

Green Function
1. True green functions, Support SMM, SMI and CPU stop clock functions
2. Four power saving states: Normal, Standby, Suspend and Off

DTK Dual Pentium Pro AT High Performance Mainboard PRM-0032I with SCSI CONTROLLER

1. CPU Dual Intel Pentium Pro series up to 200Mhz.
2. Chipset Intel 82440FX PCIset.
3. Architecture PCI SCSI – Adaptec 7880 Ultra SCSI plus PCI Master IDE controller supports PIO Mode 3 & 4 devices, I/O data transfer rate up to 22Mb/s. 4 x 32 bit Master/Slave PCI & 3 x 16 bit ISA slots.
4. System Memory 6 x 72 pin SIMM Modules, memory config. up to 384Mb supports both FPM and EDO mode DRAM.
5. System BIOS Award/AMI, supports flash ROM BIOS, Green Features.
6. Board AT Form.

$649

(Code MBDTK000)

DTK Pentium Pro AT High Performance Mainboard PRM-0031I

1. CPU Intel Pentium Pro series up to 200Mhz.
2. Chipset Intel 82440FX PCIset.
3. Architecture PCI Master IDE controller supports PIO Mode 3 & 4 devices, I/O data transfer rate up to 22Mb/s. 5 x 32 bit Master/Slave PCI & 3 x 16 bit ISA slots.
4. System Memory 6 x 72 pin SIMM Modules, memory config. up to 384Mb supports both FPM and EDO mode DRAM.
5. System BIOS Award/AMI, supports flash ROM BIOS, Green Features.
6. Board AT Form.

$305

(Code MBDTK001)

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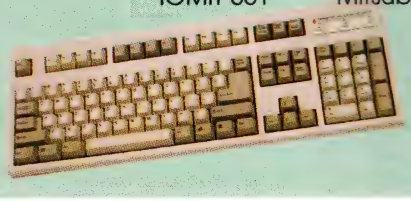

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HDMAX002	CRYSTAL MAX	3.5	11	4500	$345
HDMAX003	DIAMONDMAX*	2.5	10	5400	$335
HDMAX004	DIAMONDMAX*	5.1	10	5400	$545
HDMAX004	DIAMONDMAX*	3.2	10	5400	$349

Seagate 3.5" EIDE HD DRIVES

Code	Model	Cap. GB	Int.	Seek ms	Motor RPM	Cache	Price
HDSGT001	MEDALIST	2.1	ATA-3	12.5	4500	128K	$315
HDSGT002	MEDALIST	3.2	ATA-2	12.5	4500	128K	$365

Seagate 3.5" ULTRA-SCSI HD DRIVES

Code	Model	Cap. GB	Seek ms	Motor RPM	Cache	Price
HDSGT006	HAWKE 2XL	2.1	9	5400	512K	$595
HDSGT003	BARRACUDA	2.1	9	7200	512K	$950
HDSGT004	BARRACUDA	4.3	9	7200	512K	$1250
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HDQTM012	FIREBALL ST	2.1	U/ATA	10	5400	128K	$315
HDQTM009	FIREBALL ST	3.2	U/ATA	10	5400	128K	$365
HDQTM010	FIREBALL ST	4.3	U/ATA	10	5400	128K	$429
HDQTM011	FIREBALL ST	6.4	U/ATA	10	5400	128K	$595

Quantum 3.5" SCSI-3 HD DRIVES

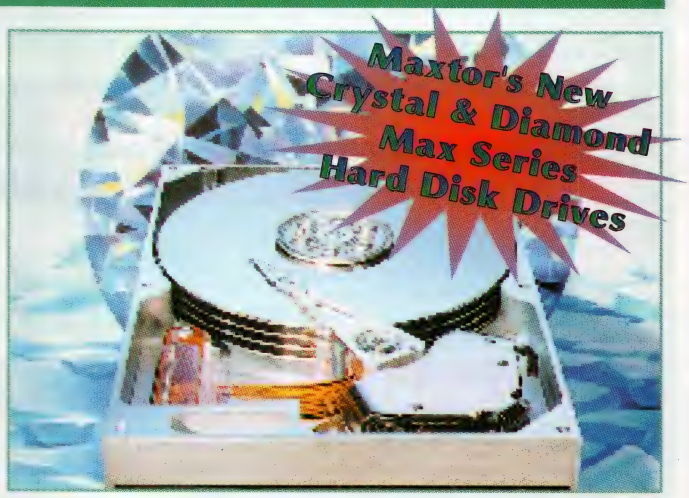
Code	Model	Cap. GB	Seek ms	Motor RPM	Cache	Price
HDQTM015	FIREBALL ST	2.1	10	5400	128K	$395
HDQTM016	FIREBALL ST	3.2	10	5400	128K	$495
HDQTM017	FIREBALL ST	4.3	10	5400	128K	$625
HDQTM018	FIREBALL ST	6.4	10	5400	128K	$1250
HDQTM005	ATLAS II U/W	4.5	8	7200	512K	$1295
HDQTM006	ATLAS II U/W	9.1	8	7200	1024K	$1995

FUJITSU EIDE HD DRIVES

Code	Model	Cap. GB	Price
HDFUJ001	FUJITSU	1.7	$245
HDFUJ002	FUJITSU	2.1	$295
HDFUJ003	FUJITSU UDMA	2.6	$315
HDFUJ004	FUJITSU UDMA	3.5	$375
HDFUJ005	FUJITSU UDMA	4.3	$425

FLOPPY DRIVES/DISKETTES

Code	Model	Price
FDSON000	SONY 3.5" 1.44MB FLOPPY DRIVE	$45
FDPAN000	PANASONIC 1.44MB FLOPPY DRIVE	$45
DKGEN000	1.44MB 3.5" DISKETTES (10 PER PACK)	$10
FDMIT000	MITSUBISHI 1.44MB F DRIVE	$45



iomega PRODUCTS

Code	Model	Price
BUIOM000	ZIP DRIVE EXT. (PARALLEL PORT) – 100MB	$235
BUIOM001	ZIP DRIVE EXT. (SCSI PORT) – 100MB	$235
BUIOM002	ZIP DRIVE INT. 3.5 (INC. SCSI CARD) – 100MB	$235
BUIOM003	JAZ DRIVE (SCSI EXT.) – 1.0GB	$670
BUIOM004	JAZ DRIVE (SCSI INT.) – 1.0GB	$505
BUIOM005	100MB PC ZIP DISKS (3 PER PACK)	$69
BUIOM006	100MB PC ZIP DISKS (10 PER PACK)	$225
BUIOM007	100MB ZIP INT IDE	$185
BUIOM008	JAZ MEDIA 1GB PC DISKS (3 PER PACK)	$465
BUIOM009	JAZ MEDIA 1GB MAC DISKS (3 PER PACK)	$465
BUIOM013	IOMEGA TRAVELLOR	$75
BUIOM015	ZIP ZOOM SCSI ISA CARD	$85

TAPE BACK UNITS

Code	Model	Price
BUSON000	SONY DAT DRIVE 2/4 GB INT.	$1290
BUSON001	SONY DAT DRIVE 4/8 GB INT.	$1350
BUBAC000	BACKPACK 800MB EXT.	$290
BU3M0000	3M TRAVAN TR-1 400/800MB	$245
BUEXA000	EXABYTE TR-41 INT.	$545

TAPE CARTRIDGE

Code	Model	Price
BUGEN000	QIC80 DC2120 120MB/250MB COMP	$35
BUGEN001	QIC-3020 MC300XL 680MB/1.36GB COMP	$45
BUGEN002	QIC-WIDE 520 200MB/400MB COMP	$45
BUGEN003	TARVAN TR-1 400MB/800MB COMP	$49
BUGEN004	TARVAN TR-2 800MB/1.6GB COMP	$55
BUGEN005	TARVAN TR-3 1.6GB/2.3GB COMP	$59
BUGEN006	TARVAN TR-4 4GB/8GB COMP	$65
BUGEN007	4MM DAT DDS-1 90M 2GB/4GB COMP	$35
BUGEN008	4MM DAT DDS-2 120M 4GB/8GB COMP	$39

GRAPHICS CARD & MONITORS

DISPLAY CARDS

GENERAL

Code	Model	Price
DCGEN000	1MB TRIDENT ISA SVGA	$49
DCGEN001	1MB S3 PCI (UP TO 2MB)	$55
DCGEN003	1MB EDO DRAM for S3	$25
DCGEN002	TSENG LABS ET-6000 PCI, 2MB (UP TO 4MB)	$90
DCGEN004	2MB DRAM Upgrade for ET-6000	$75

DIAMOND STEALTH

Code	Model	Price
DCDIA000	3D-2000XL 2MB (UP TO 4MB) DRAM 64 BIT	$155
DCDIA001	3D-3000XL 2MB (UP TO 4MB) VRAM 64 BIT	$295
DCDIA002	2MB DRAM UPGRADE FOR 3D - 2000XL	$45
DCDIA003	D-Stealth 3D PRO 2M	$155
DCDIA006	DIAMOND VIPER V330 4M PCI	$395
DCDIA007	DIAMOND VIPER V330 4M AGP	$395

matrox

Code	Model	Price
DCMAT000	2MB MYSTIQUE PCI 64Bit 3D ACCEL.	$175
DCMAT016	4MB MYSTIQUE 220 PCI 64Bit 3D ACCEL.	$295
DCMAT009	2MB MEMORY UPGRADE FOR MYSTIQUE	$125
DCMAT010	4MB MEMORY UPGRADE FOR MYSTIQUE	$195
DCMAT008	6MB MEMORY UPGRADE FOR MYSTIQUE	$345
DCMAT002	2MB MILLENNIUM PCI 64Bit	$290
DCMAT013	4MB MILLENNIUM II PCI 64Bit with new 3D Functionality	$399
DCMAT004	8MB MILLENNIUM II PCI 64Bit with new 3D Functionality	$675
DCMAT014	8MB MEMORY UPGRADE FOR MILLENNIUM II	$445
DCMAT015	12MB MEMORY UPGRADE FOR MILLENNIUM II	$595
DCMAT011	RAINBOW RUNNER FOR MILL II AND MYSTIQUE 220	$495

GRAPHIC ACCELERATORS

Code	Model	Price
MMDIA000	DIAMOND 3D MONSTER 4MB EDO	$299
MMCRE007	CREATIVE 3D BLASTER PCI 4MB EDO	$275
MMGEN017	ORCHID RIGHTEOUS 3DFX 4 MB EDO	$295

MONITORS

GENERAL

Code	Model	Price
MOGEN000	14" SVGA 0.28DP – 1024x768	$299
MOGEN001	15" SVGA 0.28DP – 1280x1024	$395

MAG INNOVISION

Code	Model	Price
MOMAG001	DX-1495 14" SVGA 0.28DP – 1024x768	$325
MOMAG002	DJ-530 15" XGA 0.28DP – 1280x1024*	$455
MOMAG004	AX-1595 15" XGA 0.28DP – 1280x1024*	$495
MOMAG003	DJ-707 17" XGA 0.26DP – 1280x1024*	$960
MOMAG005	DJ-717 17" CAD 0.26DP – 1600x1280*	$1150
MOMAG006	MX-21F 21" CAD XGA 0.28DP – 1600x1280	$2350

*ON SCREEN DISPLAY **MULTIMEDIA & SPEAKERS

Acer

Code	Model	Price
MOACE001	VIEW 34T 14" N.I DIG. 1024x768	$335
MOACE002	VIEW 54E 15" N.I DIG. 1024x768	$425
MOACE003	VIEW 56C 15" N.I DIG. 1280x1024	$565
MOACE004	VIEW 76C 17" N.I DIG. 1280x1024	$799
MOACE005	VIEW 78IE 17" N.I DIG. 1600x1200	$995
MOACE006	PRESTIGE 211A 21 N.I DIG. 1600x1200	$2720

NEC

Code	Model	Price
MONEC000	C500 15" SVGA 0.28DP 1024x768 (75Hz)	$475
MONEC001	E500 15"	$675
MONEC002	M500 15" MULTIMEDIA	$695
MONEC003	E700 17" 1600x1200	$1299
MONEC004	M700 17" MULTIMEDIA	$1395
MONEC005	A700 17"	$1190
MONEC006	E1100 21" 1180x1024 (60Hz)	$3150
MONEC007	P1150 21" 1600x1200 (70Hz)	$3790

SONY

Code	Model	Price
MOSON000	CPD-100SF 15" SVGA DIG. M/SCAN TRINITRON	$675
MOSON001	CPD-200SF 17" SVGA DIG. M/SCAN TRINITRON	$1390
MOSON002	CPD-300SF 20" SVGA DIG. M/SCAN TRINITRON	$2995

MULTIMEDIA & INTERNET

CD ROM WRITERS/DVD DRIVES

Code	Model	Price
MMRIC000	RICOH MP6200S CD-RW SCSI KIT	$795
MMRIC003	RICOH CD-RW MEDIA	$45
MMGEN016	COMPRO INTERNAL CD WRITER 4XW / 8XR	$975
MMTRA000	TRAXDATA CD WRITER 4XW / 6XR	$995
MMHPD000	HP SURESTORE 7100I CD WRITER	$799
MMYAM000	YAMAHA CDR400 SCSI INTERNAL	$990
MMYAM001	YAMAHA CDR400 SCSI EXTERNAL	$1150
MMSAM001	SAMSUNG DVD KIT DRIVE WITH M PEG	$1090
MMCRE016	CREATIVE PC DVD ENCORE DXR2 KIT	$735
MSKOD000	KODAK GOLD BLANK CD	$6
MMCRE020	CREATIVE CD-R 2X WRITE 6X READ DRIVE	$875
MMCRE021	CREATIVE NOMAI 680.RW 2X WRITE 2X REWRITE 6X READ DRIVE	$1075

MIRO VIDEO PRODUCTS

Code	Model	Price
MMMIRO00	MIRO TV TUNER CARD	$299
MMMIRO01	MIRO DC10 VIDEO EDITING INC.MEDIA STUDIO 2.5VE,PCS BUS	$675
MMMIRO02	MIRO DC30 PLUS PRO VIDEO EDITING INC. ADOBE PREMIER 4.2	$1995

VIDEO CONFERENCE

Code	Model	Price
MMCRE006	CREATIVE VIDEO CONF. KIT (CAMERA NOT INC.)	$315
MMCRE015	CREATIVE COMPACT VIDEO CONFERENCING CCD CAMERA	$235

MODEMS

Banksia

Code	Model	Price
FMBAN000	WAVE SP 33.6 D/F/V (SVD)	$229
FMBAN001	MY-VOICE MODEM 33.6/14.4 – V.34	$315
FMBAN003	WAVE SP 56K D/F/V/(SVD) K56 Flex	$299

NetComm

Code	Model	Price
FMNET000	IN-PLUS 33.6 SVD DATA/FAX/VOICE	$195
FMNET001	ROADSTER ULTRA 33.6 DATA/FAX/VOICE	$219
FMNET006	ROADSTER 56K EXT DATA/FAX K56 FLEX	$265
FMNET012	ROADSTER 56K EXT ULTRA SVD K56 FLEX	$275
FMNEY007	INMODEM 56.6K INTERNAL FAX/DATA	$235
FMNET005	MEMORY MODEM 33.6K FAX/MODEM	$465
FMNET004	SMART MODEM 33.6K WITH DES SECURITY, FAX/MODEM	$375

U.S. Robotics

Code	Model	Price
FMROB001	SPORTSTER V.34 EXT.	$199
FMROB002	SPORTSTER V.34+ 33.6 INT. (S/P)*	$195
FMROB004	WORLDPORT V.34+ PCMCIA	$399
FMROB005	COURIER V.34+ 33.6 DATA (U TO 56.6K)	$449
FMROB006	SPORTSTER FLASH EXT 56K X2	$275

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CD ROM DRIVES

GENERAL

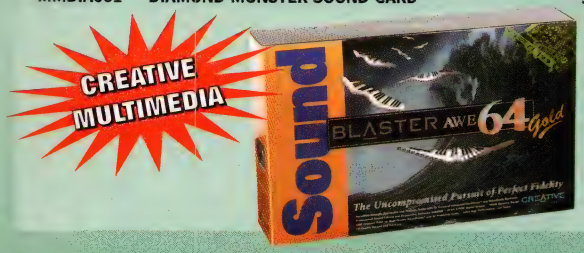
Code	Model	Price
MMGEN004	12X SCSI CDROM DRIVE	$225
MMGEN010	GENERIC 24X CDROM DRIVE	$165
MMCRE003	CREATIVE 16X CD ROM	$175
MMCRE004	CREATIVE 24X CD ROM	$185
MMPAN000	PANASONIC 24X CD ROM DRIVE	$185
MMCRE019	CREATIVE PCP PORTABLE 8X CD-ROM DRIVE	$485

Acer

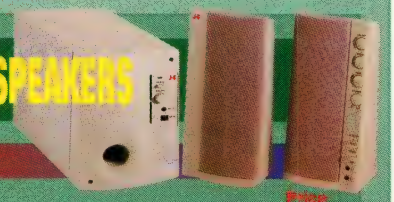
Code	Model	Price
MMACE002	16X CDROM DRIVE (CD616P)	$145
MMACE003	18X CDROM DRIVE (CD616A)	$165
MMACE004	20X CDROM DRIVE (CD920E)	$169
MMACE005	24X CDROM DRIVE	$175

SOUND CARDS

Code	Model	Price
MMGEN005	GENERIC 16 BIT SOUND CARD - PnP	$45
MMCRE011	SOUND BLASTER AWE-64 VALUE S/C PnP	$169
MMCRE012	SOUND BLASTER AWE-64GOLD S/C -PnP	$375
MMCRE017	AWE64/GOLD 4MB MEMORY MODULE	$95
MMCRE018	AWE64/GOLD 8MB MEMORY MODULE	$145
MMCRE019	AWE64/GOLD 28MB MEMORY MODULE	$485
MMCRE013	SOUND BLASTER VIBRA16-PnP	$95
MMDIA001	DIAMOND MONSTER SOUND CARD	$245



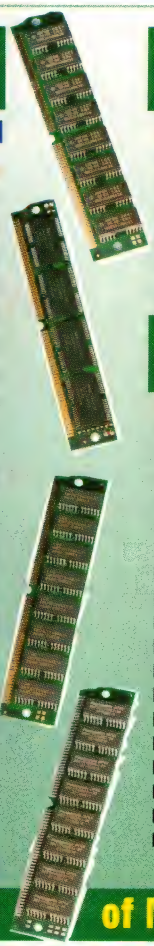
MICROPHONES & SPEAKERS



JAZZ

Code	Model	Price
MMJAZ000	JAZZ J211 25W SPEAKERS	$30
MMJAZ001	JAZZ J100 100W 3D SPEAKERS	$75
MMJAZ002	JAZZ J200 200W 3D SURROUND SOUND SPEAKERS	$89
MMJAZ003	JAZZ J300 300W 3D SURROUND SOUND SPEAKERS	$99
MMJAZ004	JAZZ 900 SUB WOOFER – 300W	$99
MMJAZ005	JAZZ J903R COMBO – 428W (TWO 128W SATELLITE SPEAKERS + 300W SUB WOOFER)	$145
MMJAZ006	JAZZ J318 50W SPEAKERS WITH BASS BOOST	$65
MMJAZ007	JAZZ SM20 OEM DESKTOP MIC.	$15
MMJAZ008	JAZZ S124 RETAIL DESKTOP MIC.	$20
MMJAZ009	JAZZ HS14 RETAIL STEREO HEADSET & MIC. PACK	$25
MMJAZ010	JAZZ BUNDLE 1 MECH WARRIOR II + ZORK NEMISIS + MIC.	$35
MMJAZ011	JAZZ BUNDLE 2 2 X REMOTE GAME PADS + STREET FIGHTER II TURBO	$55

PROCESSORS



intel inside pentium

Code	Model	Price
CPINT000	486 DX 4-100 O/D	$95
CPINT005	Pentium 166MMX	$245
CPINT006	Pentium 200MMX	$435
CPINT007	Pentium Pro 180	$695
CPINT008	Pentium Pro 200	$950
CPINT009	Pentium II 233	$795
CPINT010	Pentium II 266	$995
CPINT011	Pentium II 300	$1390
CPINT012	Pentium 233MMX	$575

AMD

CPAMD003	AMD K6-200	$335
CPAMD004	AMD K6-233	$545
CPAMD005	AMD K6-166	$245

Cyrix

CPIBM003	686-200+	$129
CPIBM004	M2-166MHZ	$275
CPIBM005	M2-200MHZ	$375
CPIBM006	M2-233MHZ	$575

CONTROLLER ADAPTERS

Code	Model	Price
CCGEN000	ISA MULTI I/O FAST UART -16550	$35
CCGEN001	ADAPTEC 152X SCSI CARD	$165
CCGEN002	ADAPTEC 1542CP SCSI CARD	$335
CCGEN003	ADAPTEC 2940 PCI SCSI CARD	$290
CCGEN004	ADAPTEC 2940 ULTRA SCSI	$299
CCGEN005	ADAPTEC 2940 ULTRA WIDE SCSI	$375

MEMORY

Code	Model	Price
RAGEN000	4MB SIMM 72Pin 60ns	$42
RAGEN001	8MB SIMM 72Pin 60ns	$59
RAGEN002	16MB SIMM 72Pin 60ns	$110
RAGEN003	32MB SIMM 72Pin 60ns	$235
RAGEN004	8MB SIMM EDO 72Pin 60ns	$55
RAGEN005	16MB SIMM EDO 72Pin 60ns	$79
RAGEN006	32MB SIMM EDO 72Pin 60ns	$165
RAGEN019	64MB SIMM EDO 72Pin	$495
RAGEN020	128MB Simm EDO 72Pin	$945
RAGEN007	16MB DIMM 168Pin	$139
RAGEN008	32MB DIMM 168Pin	$189
RAGEN009	64MB 168Pin DIMM	$495
RAGEN010	4MB 32Pin SIMM	$45
RAGEN011	4MB 72Pin Parity	$75
RAGEN012	8MB 72Pin Parity	$115
RAGEN013	16MB 72Pin Parity	$155
RAGEN014	1MB SIMM 32 Pin	$16
RAGEN018	64MB SIMM 72Pin	$545

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Code	Model	Price
CAADE000	ADE MINI-TOWER CASE	$65
CAADE010	ADE DELUXE MINI-TOWER CASE	$85
CAADE001	ADE DESKTOP CASE	$69
CAADE002	ADE MIDI-TOWER CASE	$95
CAADE009	ADE DELUXE AT/ATX MIDI-TOWER CASE	$135
CAADE003	ADE FULL-TOWER CASE	$139
CAADE004	ADE ATX MID CASE	$135
CAADE005	ADE SERVER FULL TOWER 300W	$195
CAADE006	300W SERVER SQUARE CASE	$295
CAADE007	SCSI EXT. HD CASE	$155
CAADE008	CD ROM EXT. PARALLEL CASE	$155
CAMAC000	MACASE MINITOWER	$125
CAMAC001	MACASE MID CASE	$195
CAMAC002	MACASE FULL TOWER	$235
CAMAC003	MACASE ATX MINI CASE	$175

*ALL Cases include Power Supplies

POWER SUPPLIES

Code	Model	Price
PSGEN000	200W POWER SUPPLY	$45
PSGEN001	300W POWER SUPPLY	$95
PSGEN002	200W ATX POWER	$55
PSAPC000	APC BACK-UPS 400	$325
PSAPC001	APC BACK-UPS PRO 420	$450
PSAPC002	APC BACK-UPS PRO 650	$530
PSAPC003	APC SMART-UPS 700	$695

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PRINTERS

Canon BUBBLE JET

Code	Model	Price
PRCAN000	BJC80 - Colour portable printer & scanner	$490
PRCAN002	BJC-210SP - COL. A4 360X360 DPI, 248 CPS	$225
PRCAN010	BJC-240 - COL. A4 360X360 DPI, 248 CPS PR	$299
PRCAN003	BJC-4200 - COL. A4 720X360 DPI, 510 CPS PR	$370
PRCAN004	BJC-620 - COL. A4 720X720 DPI, 300 CPS	$599
PRCAN005	BJC-4550 - COL. A3 720X360 DPI, 510 CPS PR	$675
PRCAN012	BJC-7000 Photo Realism, 1200 DPI, P-POP Printing	$720

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Canon LASER

Code	Model	Price
PRCAN009	LBP 1260 ,600 DPI 12PPM PCL5E 250/100 TRAYS 6MB	$1650
PRCAN011	LBP 660,600 DPI 6PPM FAST WINDOWS PRINT	$499

HEWLETT PACKARD

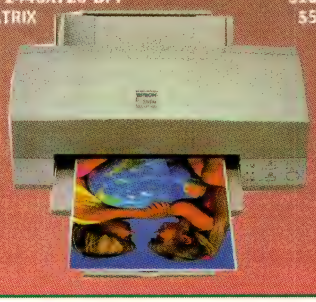
Code	Model	Price
PRHPD000	DESKJET 340, Portable with BONUS COLOUR KIT	$465
PRHPD001	DESKJET 400, OPTIONAL COLOUR KIT	$275
PRHPD002	DESKJET 670C, 600DPI, COLOUR	$345
PRHPD003	DESKJET 690C, 600DPI, COLOUR	$415
PRHPD021	DESKJET 692C, 600DPI, PHOTO COLOUR KIT	$425
PRHPD004	DESKJET 820CXI, 600DPI, COLOUR	$545
PRHPD005	DESKJET 870CXI, 600DPI, COLOUR PC/MAC	$645
PRHPD006	DESKJET 1600C, 600DPI, COLOUR, PRO. RESULTS	$2210
PRHPD007	DESKJET 1600CM, 600DPI,COLOUR, PC/MAC/Network	$3225
PRHPD022	DESKJET1000CXI A3	$755
PRHPD008	OFFICEJET PRO 350	$895
PRHPD020	OFFICEJET PRO 1150C	$1445

Code	Model	Price
PRPHD009	LASERJET 6L, 600DPI, 6PPM	$675
PRPHD010	LASERJET 6P, 600DPI, 8PPM, 2MB RAM	$1185
PRPHD011	LASERJET 6MP, 600DPI, 8PPM, PC/MAC *	$1495
PRHPD023	OFFICEJET 590C, 4 IN 1 MULTI-FUNCTION	$795

*DENOTES POSTSCRIPT

EPSON

Code	Model	Price
PREPS000	STYLUS COL. 200, 720X360 DPI, 240CPS	$275
PREPS001	STYLUS COL. 400, 720X720 DPI, 3PPM, WIN COMP.	$395
PREPS002	STYLUS COL. 600, 1440X720 DPI, 3PPM, WIN COMP.	$495
PREPS003	STYLUS COL. 800, 1440X720 DPI, 7PPM	$729
PREPS011	STYLUS PHOTO COLOUR 720X720	$795
PREPS005	STYLUS COL. PRO XL, 720X720 DPI FULL BLEED A3	$1915
PREPS010	STYLUS COL. 1520 1440X720 DPI	$1695
PREPS007	LQ-570+ 24PIN MATRIX	$575



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INPUT DEVICES

KEYBOARDS

GENERAL

Code	Model	Price
IOGEN000	ENHANCED 104/WIN95	$30
IOGEN001	HONEYWELL GENUINE - 104/WIN95	$45
IOGEN010	GENERIC PS/2 Keyboard	$45

Acer

Code	Model	Price
IOACE002	ACCUFEEL 104 KEY GENERIC RUBBER	$35
IOACE000	FUTURE ERGO. WIN95 (with touch pad)	$125
IOACE001	ACER AIR-KEY WIRELESS KEYBOARD	$130

MICE

Code	Model	Price
IOGEN004	GENERIC 3 BUTTON MOUSE	$15
IOMST003	MICROSOFT INTELLI-MOUSE	$95
IOMST004	GENIUS 3 BUTTON MOUSE - SER./PS2	$25
IOLOG000	LOGI-TECH 3 BUTTON DELUXE MOUSE	$35

SCANNERS

GENERAL

Code	Model	Price
IOGEN008	OPTICPRO 4830P 30 BIT FLATBED SCANNER 4800DPI	$249
IOGEN009	OPTICPRO 9630P 30 BIT FLATBED SCANNER 9600DPI	$299
IOACE003	ACERSCAN 300F 24 BIT-4800 DPI	$299
IOACE004	ACERSCAN 610 PLUS 30 BIT-9600 DPI	$499

HEWLETT PACKARD

Code	Model	Price
IOHPD001	5P FLATBED COLOUR SCANNER, 300DPI & 24BIT	$465
IOHPD011	6100C PROFESSIONAL COLOR SCANNER, 600DPI & 30BIT	$1245
IOHPD004	4CSE FLATBED COLOR SCANNER WITH CORELWEB SOFTWARE	$1345

JOYSTICKS & GAME PADS

Code	Model	Price
IOMST005	M/SOFT SIDEWINDER 3D PRO DIG. + GAME	$125
IOMST007	M/SOFT SIDEWINDER GAME PAD	$75
IOLOG001	L/TECH WINGMAN WARRIOR	$149

NETWORKING

Code	Model	Price
NW3CO000	3COM ETHERLINK III ISA RJ45 3C509B-TPO	$155
NW3CO001	3COM ETHERLINK III ISA 3C509B-COMBO	$205
NW3CO002	3COM ETHERLINK III ISA RJ45/10B5AUI	$185

3Com NETWORKS THAT GO THE DISTANCE

NW3CO003	3COM ETHERLINK XLPCI 3C900-TPO	$185
NW3CO004	3COM ETHERLINK XL PCI 3C900-COMBO	$220
NW3CO005	3COM FAST ETHERLINK XL PCI 10/100BT	$185
NW3CO006	3COM FAST ETHERLINK ISA 10/100TX 3C515TX	$265
NW3CO007	3COM PCMCIA ETHERLINK III 3C589D-TP	$229
NW3CO008	3COM PCMCIA ETHERLINK III 3C589D-COMBO	$310
NW3CO009	3COM PCMCIA ETHERLINK III TP/33.6K F/M	$550
NW3CO010	3COM PCMCIA ETHERLINK III COMBO/33.6KF/M	$615
NW3CO011	3COM OFFICECONNECT 4 PORT UNM HUB	$155
NW3CO012	3COM OFFICECONNECT 8 PORT UNM HUB	$245
NW3CO014	3COM OFFICECONNECT 8 PORT HUB 100BASE-TX	$1290
NW3CO015	3COM OFFICECONNECT 16 PORT UNM HUB	$455

OTHER NETWORKING PRODUCTS

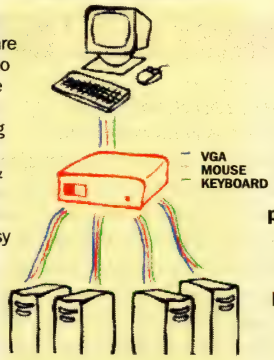
Code	Model	Price
NWGEN000	NE2000 COMPATIBLE ISA COMBO	$40
NWGEN001	PCI NETWORK CARD COMBO	$45
NWGEN002	MINI 5 PORT HUB	$85
NWGEN003	GENERIC 8 PORT ETHERNET HUB	$125
NWGEN004	GENERIC 16 PORT HUB	$175
NWGEN005	PCMCIA ETHERNET BNC+RJ45	$175
NWGEN006	POCKET ETHERNET PARRALLEL COMBO	$189
NWGEN009	INTEL ETHEREXPRESS PRO/10 PCI TP (RJ45)	$115
NWGEN010	INTEL ETHEREXPRESS PRO PCI 10/100TX (RJ45)	$145
NWGEN011	ETHERNET TRANCEIVER AUI TO RJ45	$65
NWGEN012	ETHERNET TRANCEIVER AUI TO BNC	$65
NWGEN013	INTEL ETHERNET PRO PCI COMBO 10	$165
NWGEN014	INTEL ETHERNET EXPRESS ISA COMBO 10	$145
NWSMC000	SMC 8432 PCI RJ45	$95
NWSMC001	SMC 8432 PCI COMBO	$125
NWSMC002	SMC 9332 PCI 10/100 TP	$145
NWSMC003	SMC ETHEREZ ISA COMBO	$129
NWXIR000	XIRCOM PCMCIA 10BASE-2 (BNC)	$285
NWXIR00I	XIRCOM PCMCIA 10BASE-T (RJ45)	$229
NWXIR002	XIRCOM PCMCIA ETHERNET COMBO	$295
NWXIR003	XIRCOM PCMCIA FAST ETHERNET 10/100TX	$329
NWXIR004	XIRCOM ETHERNET TP/MODEM 33.6K	$495
NWXIR005	XIRCOM ETHERNET COMBO/MODEM 33.6	$595

Xircom

DATA SWITCHES

CS-102/104/106 PC AUTO SWITCH

The ADE CS-104 and CS-106 CPU switches are useful for operating 2 to 6 computers from one keyboard, mouse and monitor. By connecting extension cables (vga m/f, mouse m/f & k/board m/m) you can easily switch between computers with our easy to use software.



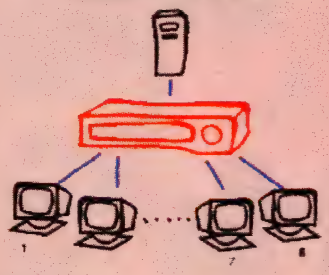
Code:
DS-ADE030
DS-ADE019
DS-ADE020

Great for Administrators who have several servers and also great for presentations. No need to buy several keyboards, monitors and mice. Use one keyboard, monitor and mouse for all your systems.

Features:
- Mouse emulation and keyboard emulation for automatic PC boot up
- Provides serial mouse and keyboard ports
- Three stage cascadable with any model for accessing more computers
- Supports SVGA, VGA and Multisync monitors
- Selects any computer by ***Hot Keys***, buttons
- Optional Foot Switch to select any computer (CS-106)
- Built-in buzzer for switching confirmation
- Keyboard and LED status recording and restored while switching among computers
- Auto Scan for monitoring PC periodically

Adelong's video splitters (VS-102/104/VS-108) are useful for displaying information from one computer onto several monitors. They enhance video signals through long distance broadcasting of up to 65m (210 feet). The daisy chain feature enables you to chain as many monitors as you want with minimum cost.

VS-102/104/108 VIDEO SPLITTER



Code:
DS-ADE000
DS-ADE001
DS-ADE002

Features:
- Duplicate video signals to two/four/five/eight video outputs
- Gain control switch for optimum picture quality
- Transmission distance: 65m (210 feet)
- Power-save mode when computer is off
- Suitable for SVGA, VGA and multisync monitors
- Daisy chainable

Item Code	Description	Base/Sales Price
DS-ADE000	VS-102 2 WAY VIDEO SPLITTER (see top picture for details)	$79.00
DS-ADE001	VS-104 4 WAY VIDEO SPLITTER (see top picture for details)	$115.00
DS-ADE002	VS-108 8 WAY VIDEO SPLITTER (see top picture for details)	$155.00
DS-ADE003	IC-100, SERIAL/PARALLEL BIDIRECTION CONVERTOR. ALLOWS PARALLEL SIGNALS TO TRAVEL OVER LONGER DISTANCE. BAUD RATE 300-38400 BPS	$95.00
DS-ADE004	IC-485, RS232 TO RS485/RS422 BIDIRECTIONAL CONVERTOR. DARA RATE, 1200M/UNDER 100K BPS	$65.00
DS-ADE005	IC-162T, NON POWERED PARALLEL LINE EXTENDER. TRANSMITTER. UP TO 610M	$50.00
DS-ADE006	IC-164R, NON POWERED PARALLEL LINE EXTENDER. RECEIVER. UP TO 610M	$50.00
DS-ADE007	MP451, NON POWERED 4 COMPUTER SHARE 1 PRINTER AUTO SWITCH	$35.00
DS-ADE008	AS811P, 8 COMPUTER SHARE 1 PRINTER AUTO SWITCH	$120.00
DS-ADE009	MS-104, MODEM SHARING AUTO SWITCH. CABLE DISTANCE, 15M MAX. 4 COMPUTERS SHARE 1 MODEM	$145.00
DS-ADE010	AS402, 4 COMPUTER SHARE 2 PRINTER AUTO SWITCH. SOFTWARE INCLUDED. MAX 6M	$130.00
DS-ADE011	AS-411S, 4 COMPUTER SHARE 1 PRINTER SERIAL AUTO SWITCH. WITH BUFFER. 15M MAX. FCC APPROVED	$95.00
DS-ADE012	AS-811S, 8 COMPUTER SHARE 1 PRINTER SERIAL AUTO SWITCH. WITH BUFFER. 15M MAX. FCC APPROVED	$155.00
DS-ADE013	AS-152P, 2 COMPUTER/1 PRINTER OR 2 PRINTER/1 COMPUTER BIDIRECTION AUTO SWITCH. 6M MAX	$55.00
DS-ADE014	AS-154P, 4 COMPUTER/1 PRINTER OR 4 PRINTER/1 COMPUTER BIDIRECTION AUTO SWITCH. 6M MAX	$65.00
DS-ADE015	AS-451S, 4 TO 1 SERIAL AUTO SWITCH. 4 COMPUTER SHARE 1 PRINTER. 15M MAX	$45.00
DS-ADE016	SP-200, NON POWERED SERIAL TO PARALLEL CONVERTOR. 150-19200BPS	$55.00
DS-ADE017	PS-200, NON POWERED PARALLEL TO SERIAL CONVERTOR. 150-19200BPS	$55.00
DS-ADE018	IE-488P, IEEE-488 TO CENTRONIC CONVERTOR	$95.00
DS-ADE019	CS-104 PC AUTO SWITCH (see top picture for details)	$375.00
DS-ADE020	CS-106 PC AUTO SWITCH (see top picture for details)	$395.00
DS-ADE021	MP-201, PRINTER AUTO SWITCH	$35.00
DS-ADE022	ECD-108, CD-ROM EXTERNAL CASE, PARALLEL PORT, 260 x 203 x 65 MM, 1130G,	$175.00
DS-ADE023	MS-201N 2 TO 1 SERIAL AUTO SWITCH	$35.00
DS-ADE024	EH132,3.5" PORTABLE HARD DISK CASE, CAPACITY 40MB-8.4 GB. 230 x 130 x 43 MM. 750G. 300K BPS	$165.00
DS-ADE025	EH100, 2.5" PORTABLE HARD DISK CASE, CAPACITY 40MB-8.4 GB, 137 x 76 x 32 MM. 150G. 300K BPS	$145.00
DS-ADE026	2 TO 1 MANUAL PRINTER SWITCH DB25	$25.00
DS-ADE027	4 TO 1 MANUAL PRINTER SWITCH DB25	$35.00
DS-ADE028	2 TO 1 PC MANUAL SWITCH	$29.00
DS-ADE029	4 TO 1 PC MANUAL SWITCH	$39.00
DS-ADE030	CS-102 PC AUTO SWITCH (see top picture for details)	$245.00
DS-ADE031	SWCN36 2 TO 1 MANUAL PRINTER SWITCH CENTRONIC	$25.00
DS-ADE032	AS251S, NON POWERED 2 TO 1 SERIAL AUTO SWITCH. ENABLES 2 COMPUTER SHARE 1 PRINTER. 15M MAX	35.00
DS-ADE033	AS251P, NON POWERED 2 TO 1 PARALLEL AUTO SWITCH. AUTO FORMFEED SELECTION. 6M MAX	$35.00
DS-ADE034	AS422P, 4 TO 2 CONCURRENT AUTO SWITCH BUFFER. 4 COMPUTERS SHARE 2 PRINTERS. 100KBPS/10M MAX	$55.00
DS-ADE035	IC150, TRANSFER DATA AT DISTANCES OF UP TO 10KM/110BPS OR 800M/19200BPS. USING 4-WIRE FULL DUPLEX OR 2 WIRE SIMPLEX CABLE. FOR RS-232	$55.00

CONSUMABLES

Canon

Item Code	Description	Price
IN-CAN000	BC01 BLACK INK FOR BJ10/20 SERIES	$39.00
IN-CAN001	BC02 BLACK INK FOR BJ200/230/BJC210/240	$39.00
IN-CAN002	BC05 COLOUR INK FOR BJC210/240	$49.00
IN-CAN003	BC06 PHOTO INK FOR BJC240	$49.00
IN-CAN004	BC06KIT PHOTO COLOUR KIT FOR BJC240	$65.00
IN-CAN005	BC09F FLUORESCENT INK FOR BJC210/240	$79.00
IN-CAN006	BC10 BLACK INK & HEAD FOR BJ30/BJC70	$55.00
IN-CAN007	BCI10BK BLACK INK FOR BJ30/BJC70	$25.00
IN-CAN008	BC11 COLOUR INK & HEAD FOR BJC70	$65.00
IN-CAN009	BCI11BK BLACK INK FOR BJC70 (3 PACK)	$19.00
IN-CAN010	BCI11C COLOUR INK FOR BJC70 (3 PACK)	$35.00
IN-CAN011	BC20 BLACK INK & HEAD FOR BJC4000 SERIES	$49.00
IN-CAN012	BC21 COLOUR & BLACK INKHEAD BJC4000 SERIES	$75.00
IN-CAN013	BCI21BK BLACK INK FOR BJC4000 SERIES	$25.00
IN-CAN014	BCI21C TRI-COLOUR FOR BJC4000 SERIES	$29.00
IN-CAN015	BC22 PHOTO INK FOR BJC4200/4500	$75.00
IN-CAN016	BC22KIT PHOT KIT FOR BJC4200/4550	$95.00
IN-CAN017	BC29F FLUORESCENT INK FOR BJC4000 SERIES	$75.00
IN-CAN018	BJI201B BLACK INK FOR BJC600 SERIES	$25.00
IN-CAN019	BJI201C CYAN INK FOR BJC600 SERIES	$15.50
IN-CAN020	BJI201M MAGENTA INK FOR BJC600 SERIES	$15.50
IN-CAN021	BJI201Y YELLOW INK FOR BJC600 SERIES	$15.50
IN-CAN022	BJI642 BLACK INK FOR BJ300/330	$29.00
IN-CAN023	BJI643BK BLACK INK FOR BJC800/880	$45.00
IN-CAN024	BJI643C CYAN INK FOR BJC800/880	$49.00
IN-CAN025	BJI643M MAGENTA INK FOR BJC800/880	$49.00
IN-CAN026	BJI643Y YELLOW INK FOR BJC800/880	$49.00
IN-CAN027	BJI801 INK FOR BJ80	$35.00

EPSON

Item Code	Description	Price
IN-EPS000	SO20002 BLACK FOR SQ850	$79.00
IN-EPS001	SO20003 BLACK FOR EPJ-200	$59.00
IN-EPS002	SO20010 BLACK INK FOR SQ-870, SQ-1170	$59.00
IN-EPS003	SO20025 BLACK FOR STYLUS 400/1000	$30.00
IN-EPS004	SO20034 BLACK INK FOR STYLUS COLOUR	$55.00
IN-EPS005	SO20036 COLOUR FOT FOR STYLUS COLOUR	$79.00
IN-EPS006	SO20047 BLACK INK FOR STYLUS 820, IIS	$35.00
IN-EPS007	SO20049 COLOUR FOR STYLUS II, IIS, 1500	$45.00
IN-EPS008	SO20062 BLACK INK FOR STYLUS 1500 XL+	$59.00
IN-EPS009	SO20066 COLOUR INK FOR STYLUS PRO XL+	$85.00
IN-EPS010	SO20089 COLOUR FOR STYLUS 400,600,800,1520	$45.00
IN-EPS011	SO20093 BLACK INK FOR STYLUS C500	$35.00
IN-EPS012	SO20097 COLOUR INK FOR STYLUS C500, 200	$49.00
IN-EPS013	SO20108 BLACK INK FOR STYLUS C800, 1520	$45.00

HEWLETT PACKARD

Item Code	Description	Price
IN-HPD000	HP51633M BLACK FOR HP PORTABLE	$39.00
IN-HPD001	HP51626A BLACK INK FOR HP 500 SERIES	$39.00
IN-HPD002	HP51629A BLACK INK FOR 600 SERIES	$39.00
IN-HPD003	HP51645A BLACK INK FOR HP850C/1600	$39.00
IN-HPD004	HP51640A BLACK INK FOR DJ1200 SERIES	$39.00
IN-HPD005	HP51606A BLACK INK FOR HP PAINTJET XL	$45.00
IN-HPD006	HP51639A BLACK INK FOR PAINTJET XL300	$39.00
IN-HPD007	HP51625A COLOUR FOR DJ500 SERIES	$44.50
IN-HPD008	HP51649A COLOUR INK FOR 600 SERIES	$44.50
IN-HPD009	HP51641A COLOUR FOR DESKJET 850C/890C	$45.00
IN-HPD010	HP51640C CYAN INK FOR DJ1200/1600 SERIES	$44.50
IN-HPD011	HP51640M MAGENTA INK FOR DJ1200/1600 SERIES	$44.50
IN-HPD012	HP51640Y YELLOW INK FOR DJ1200/1600 SERIES	$44.50
IN-HPD013	HP COLOUR PHOTO KIT FOR HP690C	$79.00
IN-HPD014	HP PHOTO COLOR CARTRIDGE 300/400/540	$49.00

TONER CARTRIDGES

Item Code	Description	Price
TO-EPS000	EPSON EPL4000/4200 TONER SO50002	$235
TO-EPS001	EPSON EPL5500 TONER SO50005	$115
TO-EPS002	EPSON EPL7100/75400/800/7500 SO51009	$450
TO-EPS003	EPSON EPL3000 CARTRIDGE SO51020	$230
TO-EPS004	EPSON EPL5000/EPL5200 CARTR SO51011	$305
TO-HPD000	HP LASERJET II/III TONER HP92295A	$125
TO-HPD001	HP LASERJET 4L/4ML/4P/4MP TONER HP92274A	$115
TO-HPD002	HP LASERJET 5L TONER HP-C3906A	$99
TO-HPD003	HP LASERJET IIP/IIIP/IIIP+ TONER 92275A	$149
TO-HPD004	HP LASERJET 4SI/4SI MX/3SI TONER 92291A	$220
TO-HPD005	HP LASERJET 5SI/5SI MX TONER HP-C3909A	$325
TO-HPD006	HP LASERJET 4/4M/5/5N/5M TONER HP 92298Z	$165
TO-HPD007	HP LASERJET 4V/4MV TONER HP-C3900A	$275
TO-HPD008	HP LASERJET 5P/5MP/6P/6MP TONER	$130
TO-OKI000	OKI OL400E/410E/810E TONER	$39

CABLES AND ADAPTORS

Item Code	Description	Price
Adaptors		
CBGEN100	KEYBOARD ADAPTOR 5F/6M	$9.00
CBGEN101	KEYBOARD ADAPTOR 5M/6F	$9.00
CBGEN102	GENDER CHANGER DB25M/F	$9.00
CBGEN103	GENDER CHANGER DB25F/F	$9.00
CBGEN104	DB25M/DE9F ADAPTOR	$9.00
CBGEN105	DB25F/DE9M ADAPTOR	$9.00
CBGEN106	MIN DIN 6M/DE9M	$9.00
CBGEN107	MIN DIN 6F/DE9F	$9.00
CBGEN108	MIN DIN 6M/DE9F	$9.00
CBGEN109	DE9F/HD15M ADAPTOR	$9.00
CBGEN110	DE9M/HD15F ADAPTOR	$9.00
CBGEN111	DE9M/HD15M ADAPTOR	$9.00
CBGEN112	HD15M/HD15M ADAPTOR	$12.00
CBGEN113	HD15F/HD15F ADAPTOR	$12.00
CBGEN114	DE9M/DE9M ADAPTOR	$9.00
CBGEN115	DE9F/DE9F ADAPTOR	$9.00
CBGEN116	RJ45 TO DB25F CONNECTOR	$6.00
CBGEN117	RJ45 TO DB 25M CONNECTOR	$6.00
CBGEN118	RJ45 TO DB9F CONNECTOR	$6.00
CBGEN119	RJ45 TO DB9M ADAPTOR	$6.00
CBGEN120	DB25F/CN36M ADAPTOR	$9.00
CBGEN121	DB25M/CN36F ADAPTOR	$9.00
CBGEN122	DB25M/M NULL MODEM ADAP	$12.00
CBGEN123	DB25/DE9F ADAPTOR	$9.00
Others		
CBGEN006	1.8M 9F/25M MODEM CABLE	$10.00
CBGEN007	1.6M 9F/25M/25F MODEM	$15.00
CBGEN038	1.8M PARA LAPLINK DB25M/M	$12.00
CBGEN039	5M PARAL LAPLINK DB25M/M	$15.00
CBGEN040	10M LAPLINK PAR DB25M/M	$19.00
CBGEN041	3M LAPLINK SERIAL	$15.00
CBGEN058	FLOPPY CABLES 780MM	$6.00
CBGEN059	IDE CABLE 3 CONNECT	$6.00
CBGEN061	INTERNAL POWER SPLITTER	$5.00
CBGEN062	1.8M WALL TO PC POWER CABLE	$6.00
CBGEN063	1.8M PC TO MONITOR POWER CABLE	$7.00

Item Code	Description	Price
Printer Cables		
CB-GEN000	6FT PRINTER CABLE	$5.00
CB-GEN001	3 METERS PRINTER CABLE	$9.00
CB-GEN002	5 METERS PRINTER CABLE	$12.00
CB-GEN003	10 METERS PRINTER CABLE	$19.00
CB-GEN004	20 METERS PRINTER CABLE	$25.00
CB-GEN088	1.8M IEEE1284 PRINTER CABLE	$19.00
CB-GEN089	1.8M IEE1284 PRINTER CABLE	$20.00
DB25 Cables		
CB-GEN008	1.8M SERIAL DB25M/DB25M	$9.00
CB-GEN009	3M SERIAL DB25M/DB25M	$15.00
CB-GEN010	5M SERIAL DB25M/DB25M	$17.00
CB-GEN011	10M SERIAL DB25M/DB25M	$20.00
CB-GEN012	20M SERIAL DB25M/DB25M	$25.00
CB-GEN013	1.8M SERIAL DB25M/DB25F	$9.00
CB-GEN014	3M SERIAL DB25M/DB25F	$12.00
CB-GEN015	5M SERIAL DB25M/DB25F	$15.00
CB-GEN016	10M SERIAL DB25M/DB25F	$17.00
CB-GEN017	20M SERIAL DB25M/DB25F	$25.00
CB-GEN018	1.8M DB25F/DB25F	$9.00
CB-GEN019	3M SERIAL DB25F/DB25F	$12.00
CB-GEN020	5M SERIAL DB25F/DB25F	$17.00
CB-GEN021	10M SERIAL DB25F/DB25F	$20.00
CB-GEN022	20M SERIAL DB25F/DB25F	$25.00
Keyboard & VGA Cables		
CB-GEN023	1.8M KEYBOARD EXT M/F	$9.00
CB-GEN024	3M KEYBOARD EXT M/F	$12.00
CB-GEN025	5M KEYBOARD EXT M/F	$15.00
CB-GEN026	1.8M CURLY KB EXT M/F	$10.00
CB-GEN027	1.8M PS/2 KB EXT M/F	$12.00
CB-GEN028	1.8M PS/2 KEYBOARD M/M	$12.00
CB-GEN029	1.8M KEYBOARD CABLE M/M	$10.00
CB-GEN030	1.8M EGA/MOUSE EXT 9F/9M	$9.00
CB-GEN031	1.8M EGA/MOUSE 9M/9M	$9.00
CB-GEN032	1.8M VGA EXT 15M/15F	$9.00
CB-GEN033	3M VGA EXT 15M/15F	$15.00
CB-GEN034	5M VGA EXT 15M/15F	$17.00
CB-GEN035	1.8M VGA CABLE 15M/15M	$9.00
CB-GEN036	MONITOR SPLITTER 15M/15F*2	$15.00
CB-GEN037	1.8M RGB CABLE 15M/BNC*5	$25.00
CB-GEN082	5M VGA CABLE HD15M/HD15M	$9.00
CB-GEN090	2M VGA TO EGA CABLE 9M/15M	$9.00
SCSI Products		
CB-GEN042	1M CENT50M TO CENT50M SCSI	$15.00
CB-GEN043	1.8M CENT 50M CENT 50M SCSI	$17.00
CB-GEN044	1M CENT 50M/DB25M SCSI	$15.00

Item Code	Description	Price
CB-GEN045	CENT 50M SCSI TERM ACTIVE	$25.00
CB-GEN046	CENT 50M TERM/C50M/C50F	$19.00
CB-GEN047	1M HONDA 50M/CENT 50M	$25.00
CB-GEN048	1.8M HONDA50M/CENT50M	$29.00
CB-GEN049	1M HONDA 50M/DB25 SCSI II	$25.00
CB-GEN050	1M HONDA 50M/HONDA 50M	$39.00
CB-GEN051	1M HONDA 68M/HONDA 68M	$45.00
CB-GEN052	1M HONDA 68M/HON 50M	$45.00
CB-GEN053	1M HONDA 68M/CENT 50M	$45.00
CB-GEN054	HONDA 50M TERMINATOR ACT	$25.00
CB-GEN055	HONDA 68M TERMINATOR ACT	$39.00
CB-GEN056	INTERNAL TERMINATOR ACT	$20.00
CB-GEN057	INTERNAL SCSI III	$85.00
CB-GEN060	INT SCSI CABLE 7 CONNECT	$15.00
CB-GEN083	HONDA 68 TO DB25 M SCSI III	$45.00
Networking		
CB-GEN064	2M COAXIAL CABLE WITH BNC	$9.00
CB-GEN065	5M COAXIAL CABLE WITH BNC	$12.00
CB-GEN066	10M COAXIAL CABLE WITH BNC	$15.00
CB-GEN067	20M COAXIAL CABLE WITH BNC	$20.00
CB-GEN068	30M COAXIAL CABLE WITH BNC	$25.00
CB-GEN069	50M COAXIAL CABLE WITH BNC	$35.00
CB-GEN070	BNC TERMINATOR	$3.50
CB-GEN071	BNC T CONNECTOR	$3.50
CB-GEN072	1M RJ45 CABLE	$8.00
CB-GEN073	2M RJ45 CABLE	$10.00
CB-GEN074	5M RJ45 CABLE	$15.00
CB-GEN075	8M RJ45 CABLE	$19.00
CB-GEN076	10M RJ45 CABLE	$20.00
CB-GEN077	15M RJ45 CABLE	$25.00
CB-GEN078	20M RJ45 CABLE	$30.00
CB-GEN079	25M RJ45 CABLE	$35.00
CB-GEN080	30M RJ45 CABLE	$39.00
CB-GEN081	40M RJ45 CABLE	$45.00
CB-GEN084	2 METRE RJ45 CABLE-CROSS	$12.00
CB-GEN085	3 METRE RJ45 CABLE-CROSS	$15.00
CB-GEN086	5 METRE RJ45 CABLE-CROSS	$19.00
CB-GEN087	10 METRE RJ45 CABLE-CROSS	$25.00
CB-GEN091	0.5M RJ45 CABLE	$7.00
CB-GEN092	3M RJ45 CABLE	$12.00
CB-GEN093	3M COAXIAL CABLE WITH BNC	$10.00
CB-GEN094	15M COAXIAL CABLE WITH BNC	$18.00
CB-GEN095	8M COAXIAL CABLE WITH BNC	$15.00
CB-GEN096	12 METERS COAXIAL CABLE BNC	$18.00
CB-GEN097	18 METERS COAXIAL CABLE BNC	$25.00

ADE AUSTRALIA

SOFTWARE

Code	Model	Price
Microsoft		
SWMST000	MICROSOFT WIN95 ON DISK-NEW USER	$275
SWMST001	MICROSOFT WIN95 ON CD -UPGRADE	$139
SWMST002	MICROSOFT WIN95 ON DISKETTE -UPGRADE	$139
SWMST003	MICROSOFT WIN NT WORKSTATION 4.0 -NEW USER	$399
SWMST004	MICROSOFT WIN NT WORKSTATION 4.0 -UPGRADE	$189
SWMST005	MICROSOFT OFFICE 97 STD VERS.CD -NEW USER	$629
SWMST006	MICROSOFT OFFICE 97 STD VERSI.CD -UPGRADE	$345
SWMST007	MICROSOFT OFFICE 97 PRO VERS. CD -NEW USER	$759
SWMST008	MICROSOFT OFFICE 97 PRO VERS. CD -UPGRADE	$439
SWMST009	MICROSOFT WORKS VER 4.0 FOR WIN95	$95
SWMST010	MICROSOFT WORD 97 -NEW USER	$319
SWMST011	MICROSOFT WORD 97 -UPGRADE	$139
SWMST012	MICROSOFT EXCEL 97 -NEW USER	$299
SWMST013	MICROSOFT EXCEL 97 -UPGRADE	$139
SWMST014	MICROSOFT POWER POINT 97 -NEW USER	$319
SWMST015	MICROSOFT POWER POINT 97 -UPGRADE	$139
SWMST016	MICROSOFT ACESS 97 -NEW USER	$319
SWMST017	MICROSOFT ACESS 97 -UPGRADE	$139
SWMST018	MICROSOFT PUBLISHER 97 -NEW USER	$95
SWMST019	MICROSOFT PUBLISHER 97 -UPGRADE	$95
SWMST020	MICROSOFT FRONT PAGE 97 -NEW USER	$139
SWMST021	MICROSOFT FRONT PAGE 97 -UPGRADE	$65
SWMST022	MICROSOFT OUTLOOK 97	$129
SWMST023	MICROSOFT VISUAL J++	$149
SWMST024	MICROSOFT VISUAL C++ PRO V5	$650
SWMST025	MS VISUAL BASIC PRO V5	$645
SWMST026	MICROSOFT ENCARTA 97 I/ACTIVE ENCYCLOPEDIA	$59
SWMST027	MICROSOFT ENCARTA 97 I/ACTIVE WORLD ATLAS	$59
SWMST062	MICROSOFT ENCARTA 98 I/ACTIVE ENCYCLOPEDIA	$75
SWMST042	MICROSOFT FLIGHT SIMULATOR	$59
SWMST062	MICROSOFT ENCART 98	$75
SWMST043	MS OFFICE 97 VALUE PACK	$499
SWMST044	MS PROJECT WIN 95 DISK	$590
SWMST045	MS PROJECT UPGRADE DK	$195
SWMST048	MS WIN NT SERVER V4 5 USER	$890
SWMST049	MICROSOFT NT USER LICENSE	$60
SWMST051	MS HOME ESSENTIAL 97	$149
SWMST052	MS OFFICE 97 SMALL BUSINESS ED	$355
SWMST058	MS TEAM MANAGER 97	$595

Code	Model	Price
Accounting		
SWMY0000	M.Y.O.B FIRST ACCOUNTS	$175
SWMY0001	M.Y.O.B ACCOUNTING	$315
SWMY0002	M.Y.O.B ACCOUNTING WITH PAYROLL	$485
SWMY0003	M.Y.O.B PREMIER 3 USERS	$975
SWQIK001	QUICK BOOK PRO	$415
SWQIK004	QUICK PAYROLL PRO	$315
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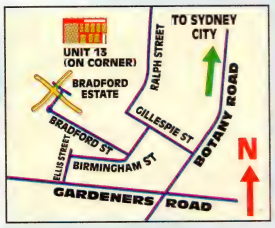

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Qty.	Reference	Description	Price
1	FREE GIFT	See Page Three	FREE

Exp. Date ☐☐/☐☐ Delivery TOTAL

Please charge my VISA / MasterCard / AMEX / Bank Card

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(Company Name) _____

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Fax No. _____

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CREDIT ACCOUNTS:- Accounts may be opened for Govt. Depts, Education and selected incorporated businesses, subject to status. Initial order value to open accounts must be in excess of $500. Credit account orders are only accepted on official stationery by fax or post. Credit accounts must be paid strictly within 30 days, and we reserve the right to withdraw credit facilities.

WARRANTY AND RETURNS:- Only Australian sourced goods are supplied. Goods are not supplied on a trial basis, please check specification and compatibility with the manufacturer prior to purchasing. Although our staff can offer advice, they cannot confirm compatibility. In the case of faulty goods, please contact our customer service department who will make arrangements for replacement. Such arrangements may involve you dealing with the manufacturer directly. If, within 30 days of purchase, but before opening the product, you decide the product is unsuitable please call us to arrange a returns number. We will refund the cost of the item minus a 15% restocking fee. We cannot accept non-faulty opened software for return, under any circumstances. All returns must be authorised by us, and must be returned in suitable packaging, bearing our returns number on the outside.

Returns not complying with these terms will be refused. Where a manufacturer offers a money back guarantee, this will normally involve you sending the product back directly to the manufacturer, who will process the refund themselves.

PRICE PLEDGE:- Refers to Australian products available ex-stock. We will beat the advertised total cost (including delivery) subject to not selling below our cost price. We reserve the right not to beat prices or liquidated, end of line or OEM items, and will not match prices that have been printed incorrectly. The price pledge is only available at the time of ordering.

SPECIAL OFFERS AND FREE GIFTS:- All special offers are subject to availability, and may be in promotional packaging (packaging may refer to boxes, manuals, etc.) All photographs are for identification purposes only. Please remember to choose a free gift when ordering. If no gift is specified, none will be sent.

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Nationwide Delivery – We can deliver to any location in Australia, quickly. Whatever it takes, we deliver.

Massive Stocks – Our aim is to fulfil 95% of orders from stock. Our financial stability enables us to hold more than 10,000 items in stock at any one time.

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No.1 Service – As an international company we have won more awards for products and services than any software mail-order company.

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EVERYTHING FOR YOUR PC - DELIVERED NATIONWIDE!

Microsoft Office 97!

FROM **$345!**

Guide to MS Office pricing

If you have ten PCs or more then call our corporate team as you will be able to make substantial savings by entering into a MOLP agreement. If you are looking for single copies or small quantities please refer to these charts.

Upgrade: If you currently use any version of either MS Word, MS Excel, MS Access, MS Powerpoint or MS Works then you qualify for the upgrade.

Competitive Upgrade: If you currently use a Lotus product, Corel, Harvard or other major competitive products you qualify for an upgrade price - call for details.

New User: If you do not qualify for either of the above then new user pricing applies.

Office 97	New User		Upgrade or Comp. Upgrade	
Standard	MIC628	$649	MIC629	$345
Pro (Free MS Bookshelf Basic)	MIC631	$775	MIC632	$439
Pro & Microsoft IntelliMouse (Free Microsoft Bookshelf Basic)			MIC648	$469
Developer	MIC648	$1029		$Call

Please note: Office 97 is ONLY available on CD. Disk exchange is available via Microsoft for a small charge

Microsoft Word 97 sees major improvements with developed intellisense complete with new grammar checking

MIC647 Microsoft Word 97 ..... **$439**
MIC646 Microsoft Word 97 U/G **$145**

Microsoft Excel 97

New in Excel 97 are drag and drop page breaks, auto-resizing when you print and text rotation.

MIC637 Microsoft Excel 97 ..... **$439**
MIC638 Microsoft Excel 97 U/G **$145**

Microsoft Outlook 97

Outlook is designed to help you easily manage your desktop including email, a calendar, contacts and files/documents all from a common work area.

MIC642 Microsoft Outlook 97 ..... **$135**

Office for Win 3.1	New User		Upgrade		Comp. Upgrade	
Standard V.4.2 3.5"	MIC129	$629	MIC139	$399	MIC136	$399
Professional V.4.3 3.5"	MIC168	$765	MIC173	$549	MIC189	$549
Professional V.4.3 CD	MIC178	$765	MIC179	$549	MIC553	$549

MS PowerPoint 97

The World's Leading Presentation Software

New drawing and charting features, seamless web integration via Explorer 3.0 and an improved interface make your PowerPoint presentations quicker to produce and deliver even more impact!

MIC644 MS PowerPoint 97 ..... **$439**
MIC643 MS PowerPoint 97 U/G **$145**

Microsoft Access 97

Microsoft Access 97 supports the al new Office 97 interface and is now even more powerful.

Seamlessly integrates with the Visual Basic custom development environment, to enable powerful, despoke business applications to b constructed within the office 97 Pro environment. Available with Office 97 Pro version only.

MIC635 MS Access 97 ..... **$439**
MIC634 MS Access 97 U/G **$145**

The Lowest Microsoft Prices in Australia

The MS Office 97 u/g Value Pack + Exclusive bonus

+$100 Bonus Voucher

This great offer includes; Office 97 Upgrade Encarta WA,Games sampler, publisher 97, Money 97, Picture-it, IntelliMouse.
PLUS: Norton's Anitvirus, **PLUS:** $100s worth of Post-it Digital Products **PLUS:**
EXCLUSIVE TO SOFTWARE WAREHOUSE
Music Central,IMSI 35000 Master Clips & Smart Tax

All this for only $539
MIC683

MS Office 97 Small Business Edition

The first office suite specifically designed for small business

Small Business Contains;

- Word 97 (Word processor).
- Microsoft Excel 97 (spreadsheet).
- Publisher 97 (desktop publishing).
- Outlook 97 (desktop information manager).
- Autoroute (Route planner and travel guide).
- Small Business Financial Manager 97n (financial analysis tool).
- The internet tools and information include the Microsoft Internet.

MIC718 Microsoft Office 97 Small Business Edition U/G... **$355**

MS Home Essentials

Get the most out of your PC-five great products combined at one amazing price

- Microsoft Word 97 - The world's best selling word processor for Windows 95.
- Microsoft Works 4.0 - The powerful spreadsheet and database in Works.
- Microsoft Football - World class pitch, cheering crowds - play like a champion!
- Microsoft Network - One month free trial of Microsoft Network.
- Microsoft Internet Explorer - The most exciting and easy way to surf the Net.

MSS081 Microsoft Home Essentials **$149**

MS Front Page 98

With authoring and Management tool plus Bonus Pack

Microsoft FrontPage 98 with Bonus pack makes creating professional-quality websites effortless with powerful new functionality, support for the latest Web technologies and seamless integration with Microsoft Office. It's never been easier. Create and manage Web sites with graphical tools. View and easily manage hierarchical, graphical and directory representations of your Web site in the FrontPage.

Includes powerful Web technologies.
Easily incorporate your own tags, ActiveXT, controls, database support, JavaScriptT, browser plug-ins, and Visual Basics, Scripting Edition.
Build eye-catching pages using WYSIWYG editing-there's no need to know HTML because the FrontPage Editor provides a graphical editing environment that works like other Microsoft Office 97 applications. Add content with wizards, templates and drag-and-drop ease. Plus many more features

MSS022 Microsoft FrontPage 98 ..... **$149**
MSS026 MS FrontPage 98 U/G **$75**

MS Publisher 97

Create High Impact Publications In A Few Easy Steps

Create effective, high-impact publications and Web sires with Publisher 97/ It's perfect for all your projects- business, home, club, charity and school. And so easy to use. In just minutes, you can turn your ideas into professional-looking publications, in print and online

1. Choose a publication - Just click on the type of publication you'd like to create.
2. Create with confidence - customise your layouts with customised tools.

Features

- Clip gallery with over 500 clip art images and photo images.
- Additional clip art images plus sounds, videos and photos may be accessed from MS Clip Gallery Live on the World Wide Web.
- Over 40 font styles on the font menu.
- More than 150 decorative boarders- or create your own.
- New Web site wizard for creating ready-to-be-published Web sites.
- Design gallery with hundreds of coordinated design elements

MIC532 MS Publisher 97 ..... **$95**
MIC206 MS Publisher 97 U/G **$69**

MS Project 98

Managing your projects shouldn't be a project in itself

Microsoft Project 98 is a major upgrade to the best selling project management software.
Microsoft Project 98 builds on the leading-edge features with even greater control over the project, improved resource management, and more communication features.
Microsoft Project 98 is the only project management software that puts you in control of your projects, keeps everyone informed and involved, and is compatible with the way you work today.
Microsoft Project 98 lets you plan and track all projects, from simple to complex, with confidence so that you can quickly adapt to changes as they occur. It also allows you to communicate your project plans to keep everyone informed, involved and your project on track.
Microsoft Project 98 easily fits into the way you work today thanks to its compatibility with your desktop, your database, and your development tools.

MSS023 MS Project 98 ..... **$709**
MSS024 MS Project 98 U/G **$269**

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Flight Simulator 98

It's midnight, snowing heavily and you're one of twenty planes waiting to land at Heathrow. Confident Captain?

The worlds leader in flight simulation takes you to new levels of realism, adventure and challenge. You've never flown like this before!
Microsoft Flight Simulator for Windows 95 provides the best way to experience the thrill and challenge of flight. The game delivers the most realistic flight simulation on a PC.

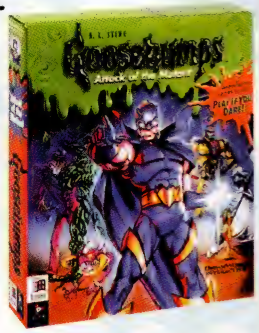
- The all-time top selling PC game offers more thrills than ever.
- Two new planes, new flying lessons, more new cities and airports, more challenges and adventures.
- Digitised instrument panels are featured on all six planes

Ultra realistic planes provide an unparalleled flight experience.
NEW Virtual pilot instruction guides you through!
NEW Multimedia flight school instructs you in the basics!
NEW AutoInstall and AutoPlay get you out on the runway fast!

MIC750 Microsoft Flight Simulator V6 ..... **$75**

Goosebumps - Attack of the Mutants

GooseBumps comes to life. Play if you Dare, Mortal!



Your favourite Goosebumps story is now a killer action game! First there was the Goosebumps novel One day in Horrorland written by R.L.Stine, then there was the interactive game(designed to follow-on from that novel) Escape from horrorland.
Now Goosebumps comes to life in this thrilling 3-D action sequel. The Masked Mutant has an evil plan to take over the world and only you can stop him, Play if you dare!
Save the world from a gang of psychotic killer mutants. You've got until bedtime!

- Over 15frightening levels of in-your-face action.
- Fight an army of diabolical villains
- Team up with an entire league of super heros
- See stunning 3-D graphics
- Hear great celebrity voices, including Jim Belushi and Adam West.

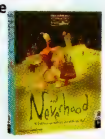
MIC751 MS GooseBumps: Attack of the Mutants **$55**

MS Precision Racing

Gamers can now participate the thrills & spills of racing an Indy Car. Features accurate tracks, cars, graphics & sound.

MSS017
MS Precision Racing **$65**

The Neverhood



Loose your self in the unique clay-animated world of the Neverhood! Enjoy slapstick epic clay adventures game cut from an entirely new mold.

MIC598
MS Money 98 ..... **$59**

Chaos Island

Think fast. Move even faster. You control a team of scientists stuck on an Island packed with prehistoric perils!

MIC509
MS Chaos Island ... **$49**

Age of Empires

Mix the tactical genius of Napoleon with the terror of Atilla the Hun and the world will be yours!

MSS018
Age of Empires **$65**

Close Combat

Take control of men who act like real soldiers!
Defeat the enemy in non stop World War II action. Lead your men through the terror, fatigue and hell of war on to Victory!

MIC752
MS Close Combat .. **$65**

MS Golf V3

It's a whole new ball game. Now better than ever, with lightning -fast Windows 95 game engine, superior graphics, and a realistic feel from the texture of the fairways to the birds singing.

MIC512
MS Money 98 ..... **$59**

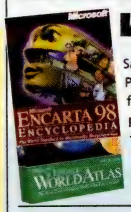
MS Intellimouse

and MS Keyboard

- New IntelliMouse wheel allows you to quickly ZOOM and SCROLL in Office 97 applications.
- Improved control in Windows 95 and windows NT 4.0.
- Fast, easy navigation in Explorer 3.0.
- 3 year warranty
- All Office 97 applications will be compatible with the new mouse allowing the user to transfer zooming, scrolling and data zooming to the mouse.

MIC205 Microsoft Natural Keyboard **$99**
AUS168 MS Home Mouse **$49**
MIC542 MS Intellimouse **$85**

Encarta 98 + Encarta World Atlas



Save the moments, share the memories with Microsoft Picture It! and your pictures, you can dazzle family and friends with greetings cards, calendars, collages, album pages and more, complete with backgrounds and templates.

MSS012 Encarta 98 Enc **$59**
MSS014 Encarta 98 Atlas **$59**

MS Picture it!

Save the moments, share the memories with Microsoft Picture It! and your pictures, you can dazzle family and friends with greetings cards, calendars, collages, album pages and more, complete with backgrounds and templates.

MSS080 Picture It! **$75**

MS Greetings Workshop

Create the quality of Hallmark at home! Easily create Hallmark-quality cards, announcements, calendars, certificates, banners, signs, and more with your home computer and Microsoft Greetings Workshop!

MIC538 Greetings Workshop **$35**

MS Cinemania

The best selling movie guide that has the critics talking,it has the latest reviews from the most well-known critics, combined with celebrity tours, famous movie and audio clips, and FREE monthly online updates through to September 30th 1997, to keep your information current.

MIC521 MS Cinema **$37**

Hot New Kids Titles

MS Creative Writer 2.0

The desktop publisher for kids that's packed with writing & drawing tools.

MIC526 MS Creative Writer **$37**

Magic School Bus Dinosaurs

Go on a thrilling dinosaur search today!

AUS298 MS Magic SchoolBus Dinosaurs ... **$59**

MS 3D MovieMaker

Create your own Nickelodeon movies with your favourite Nick characters

MIC528 MS3D MovieMaker **$49**

Sidewinder Force Feedback Pro

A Quantum leap for joystick control

First there was sight.
Then there was sound.
Now with Force Feedback technology, Microsoft adds the sense of touch to revolutionise the gaming experience.

- True Life Sensation
- 2 Games - Interstate 76 and MDK Mission Lagoon
- 16 Joystick Function, 8-way hat switching, trigger, throttle, wheel & handle movements.

MSJ001 MS SideWinder Force Feedback Pro **$249**
MSJ002 MS SideWinder Procession Pro **$109**
MIC546 MS SideWinder Game Pad **$55**

Money 98

Smart finances start with MS Money 98.
A solid strategy. A plan that puts your finances in order and your mind at ease. With MS money, you have everything you need to manage your day-to-day tasks - from paying bills to planning your financial future.

MSS020 Money 97 ..... **$39**

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Windows 95

Over two years into Windows 95 and it has never been out of the top two selling Software Warehouse (UK) charts! This ground breaking upgrade to Microsoft Windows replaces Windows 3.1, Windows for Workgroups 3.1 and all versions of MS-DOS. It's robust, fast and features integrated multimedia, networking and a fantastic new interface!

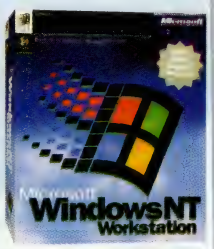
Includes Internet starterkit 3.0

New Interface:Smarter, easier to use interface features longer file names and simpler file and document management.
Bigger, smoother video:Windows 95 is a powerful 32 bit operating system that lets your computer process more data effectively making the quality of the video you see vastly better.
Plug-and-play upgrades: Upgrading your PC is easier. No more complicated installation with AUTOEXEC.BAT and CONFIG.SYS. Just look out for upgrade boards and peripherals that feature PnP compatibility. True multitasking: With Windows 95 you will be able to take advantage of true multitasking for the first time on a PC. You'll be able to open multiple applications.

Buyers guide to Windows NT and Windows 95	Windows NT Workstation 4.0	Windows NT Workstation 4.0
What is it?	An Industrial-strength operating system for business applications now with the Windows 95 user interface	The easiest operating system for general business and home users
What you get	• Highest level of performance • Less emphasis on backward compatibility	• Increased reliability and performance over Windows 3.1 • Greater emphasis on backward hardware and software compatibility • Plug and play • Better mobile and games support
What you need to run it	• 16Mb of RAM • 140Mb of hard disk space	• 8Mb of RAM • 40Mb of hard disk space

Windows NT Workstation 4.0

Combines the ease of use of Windows 95 with the power of Windows NT. Windows NT workstation 4.0 combines the ease of use of Windows 95 with the reliability and security that have made Windows NT a success in the demanding workstation marketplace. This release also includes built in networking support, providing secure easy access to the internets. new administrative features now make it easier to manage and control, which helps reduce the total cost of operation. The newest version of Windows NT Workstation includes these benefits: Greater ease of use of the Windows 95 user interface. Windows NT Workstation also includes Windows NT Explorer, providing users a hierarchical view, or tree of each drive and folder on the computer. Peer Web services enable low-volume personal Web publishing in corporate intranets.



WIN072 **MS Windows 95 on CD U/G** **$139**
WIN071 **MS Windows 95 on 3.5 U/G** **$139**
MIC464 **MS Windows NT Workstation 4.0** **$399**
MIC486 **MS Windows NT Workstation 4.0 U/G** **$195**

Microsoft Visual Studio 97

Microsoft Visual Studio 97 is the complete of visual tools from Microsoft.

Microsoft Visual Studio 97 Professional Edition gives developers the tools and flexibility to create high-performance Windows and Internet applications. Visual Studio 97 Professional comes with Microsoft Visual Basics 5.0, Visual C++ 5.0, Visual InterDev 1.0, Visual FoxPro 5.0 and the MSDN library Developer Reference CD-ROM. Visual Studio 97 comes with a license for one developer. Microsoft Visual Studio 97 Enterprise Edition adds the power of multi-tier, scalable solutions to Microsoft Visual Studio 97 professional.
Visual Studio 97 Enterprise Edition gives developers the tools to integrate client/server development with Internet technologies.
In addition to the suite of award winning development tools found in the Professional Edition, Enterprise customers will get the Microsoft Transaction Server, SQL Server 6.5 Development Edition, Visual SourceSafe 5.0 and Integrated Transact-SQL debugging from Visual Basic 5.0 and Visual C++ 5.0,.
Visual Studio 97 comes with a license for one developer. Microsoft Visual Studio 97 Enterprise Edition includes everything within the Professional Edition and adds the ability to scale client/server solutions to the Enterprise with integrated support for SQL, transactions and team development. Microsoft's comprehensive suite of award winning development tools in one economical package. The developer deal of the year.

Features Benefits

- Super fast applications with the native code compiler.
- Applications created with VB 5.0 run up to 20 times faster.
- Internet controls included.
- ActiveX control creation.
- Activex web application creation.
- Build state of the art Internet/intranet based applications.
- Make existing apps integrate with the internet using internet controls.
- Quickly build ActiveX controls that can be used by Internet browsers.
- Reduce cost of ownership through decreased setup and maintenance
- Intelligent design environment.
- Higher developer productivity: create applications faster and easier.

MIC692 **Microsoft Vis/Studio Pro 97 Ed** **$279**
MIC685 **Microsoft Vis/Studio Ent 97 U/G** **$1289**
MIC736 **Microsoft Vis/Studio Pro 97 CD** **$1299**
MIC682 **Microsoft Vis/Studio Pro 97 U/G** **$639**

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Microsoft Visual Basic 5.0

Microsoft Visual Basic 5.0 is a rapid application development (RAD) tool. It's the most efficient tool for creating high-performance applications that run on Windows 95 and windows NT

Easily create ActiveX controls that can be reused in many different development tools, including Visual Basic, Visual C++, Microsoft Office and Microsoft Internet Explorer. Convert existing applications developed with Microsoft Visual Basic 5.0 to ActiveX Web applications which can be automatically installed and run in an Internet Browser. In addition the Enterprise Edition is for teams of developers building solutions for large organisations. it includes Microsoft SQL Server and tools for fast data access, SQL debugging, distributed transaction processing and team development for database and object oriented analysis.
Microsoft Visual Basic 5.0, with an integrated native code compiler, is the most efficient tool for creating high performance win 32-based applications and components. Build fast Windows based applications more efficiently and quickly than ever before. Create ActiveX controls with little or no codes and create ActiveX Web applications for the Internet and intranet. The fastest way to build high performance Windows applications Visual Basic 5.0 has Native Code Compile, so applications developed in VB will run up to 20m times faster.Has intellisense technology that makes developing in VB even faster and easier. With over 3 million developers, VB is the best selling and most widely used development too in the world.

BVG028 **MS VIS Basic V5 Learning Edition CD** **$129**
MIC265 **MS VIS Basic PRO V5 CD** **$649**
MIC352 **MS VIS Basic PRO V5 U/G** **$329**
MIC679 **MS VIS Basic PRO V5 C/G** **$389**
MS5009 **MS VIS Basic Enterprise** **$1579**
MIC684 **MS VIS Basic Enterprise U/G** **$889**

Please call for MOLP (License) pricing on volume Microsoft purchases.

Microsoft LICENSE PAK

Microsoft Visual J++

Microsoft® Visual J++ gives you everything you need to create the best Java™ applications - fast.

MIC485 **Visual J++** **$119**

Microsoft Visual C++

MIC715 **Visual C++ V5 Standard CD** **$129**
MIC678 **Visual C++ V5 Pro** **$649**
MIC370 **Visual C++ V5 U/G** **$319**
MIC369 **Visual C++ V5 Ed** **$129**

Visual InterDev

MS Visual InterDev the newest member of the visual tools family, empowers, web application developers to rapidly build fully interactive, dynamic Web sites. wit visual development features and powerful database tools, Visual InterDev provides the most complete and technically advanced development system for building both intranet and internet applications.

MIC753 **Visual InterDev** **$699**

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The Easiest way to buy Microsoft Software.

In the past licensing agreements for Microsoft software have only been applicable to large organisation. International Software Warehouse now offers Microsoft Open License Packs (MOLP) not only to corporate customers, but also to small and medium sized companies. Today, if you want to install Microsoft Office 97 on 10 machines (or less if maintenance is included), you now qualify for an Open License Agreement. Below we explain in more detail how MOLP works, but for more details call our sales team on 1300 360 799.

Why licensing makes sense

Software is a driving force behind your organisation's productivity. pay a premium to license it one at a time? And why take up valua with piles of boxes, duplicated documentation, and extra disks? Th MOLP makes licensing software incredibly simple and straightforw

The Open License gives you volume purchasing power for ordering and reordering Microsoft software for up to two years. MOLP offe such benefits as low minimum purchases, zero forecasting requirements, no cumbersome paperwork or reporting hassles anc no commitment to buy additional products. The Open License term defines the word "flexible". You can choose the right amount of products that fits your organisation, today and tomorrow.

Who's it for?

The Open License enables small business, corporate, government, and educational organisations to efficiently purchase their required software, while reducing administrative overhead and distribution costs.

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In order to achieve better pricing, the Microsoft Open License has three volume price levels (see table below). It's a simple equation: the higher the initial purchase, the better price band you qualify for. So you not only empower more users, you gain savings that lower your overall costs. And you may reorder (minimum 10) to two years - at the same attractive price level - to meet the evolving ur organisation.

Price brands base on initial order:

Price Band A	**20 units**
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Each Microsoft product has a unit value assigned to it. Simply combine product within each product pool (Application, System & server Pools) to achieve higher volume pricing discounts and lower prices.

For more information on MOLP and how it can save you money call our sales team on 1300 360 799.

MS BackOffice Small Business Server

Microsoft BackOffice Small Business Server is the complete business solution that makes it easy to manage and grow your business.

Microsoft Small Business Server features award-winning products that give you everything you need to run a growing business. Designed for companies with 25 or fewer PCs, it's an integrated solution for sharing files, databases, printers, electronic mail, fax services, applications, and other resources with anyone, anywhere, at any time-all from one integrated server. You get advanced communication services and fast, flexible access to the Internet. Best of all, the server is exceptionally easy to set up, manage, and use, so you can get up and running with it right away.

Microsoft Small Business Server works with the business systems you have now and will work with the technology you'll need in the future. That means you can preserve your current investments while enjoying the advantages of new technologies.

MS Small Business Server works easily with MS Office and other leading applications, so you can integrate information from almost any source into your desktop PCs.

What's more, the server supports applications for MS Windows - the world's most popular software environment - so the latest, best solutions will continue to be available for your business. Software developers have already created more than 2,000 applications and tools that work with Microsoft Small Business Server to meet specific business needs.

Microsoft Small Business Server can also help you schedule meetings with employees, customers, and business partners, and assign and manage tasks among team members regardless of their location-all without expensive conference calls. Or you can publish a White Pages directory of names, e-mail addresses, and phone numbers to ease collaboration between employees and business associates.

As your business continues to grow, Microsoft Small Business Server can provide the foundation you need to preserve your computing investments, plus a clear direction for managing your expanding technology needs.

File, print, and application services;

Proven product, secure, reliable, comprehensive platform for connecting to the Internet .

MS SQL Server provides a powerful, secure relational database for running business apps.

Communicate in new, more efficient ways;

Communicate across the world build an online community with electronic mail, discussion groups etc. Centrally manage sending and receiving faxes. Locate a Service Provider & get on the Internet fast! Manage professional-looking Web sites without programming. MS Proxy Server - fast, secure access to the Internet from individual desktop PCs. Share modems from a central location.

Easy to set up, manage, and grow

Installing MS Small Business Server is truly easy. Automated tools

walk you through the setup step by step.

MS Integrated Server Setup installs all server components; just answer a few questions.

MS Setup Computer Wizard; a simple, quick way to add new PCs to your network.

Console centralises management tasks in an intuitive location, complete with Wizards.

MSS070	BackOffice SBS 4.0 English Intl C/P Upg. CD 5 Client	$1,299
MSS071	BackOffice SBS 4.0 English Intl CD 25 Client	$3,399
MSS072	BackOffice SBS 4.0 English Intl CD 5 Client	$2,059

MicroSoft Back Office Version 2.5

Microsoft BackOffice provides the integration, ease of use, scaleability and manageability hitherto unavailable with traditional client server or Internet software. It provides the best foundation for a new class of solutions that combine the best of three-tier client server and Internet technologies allowing either thick client or thin client solutions to be used as appropriate.

All six members of the BackOffice family work together and share a solidly defined, solidly supported, truly open architecture built around Active X, COM and Windows Open Services Architecture (WOSA)

The Microsoft BackOffice 2.5 includes six integrated "best-of-breed" components that work together to help run your business.

They are:

Microsoft Windows NT Server 4.0

A multipurpose network operating system that is the most powerful, reliable and open platform to build, deploy and manage file and print sharing, client-server and Internet applications for your networks. Windows NT 4.0 includes Internet information Server - so you have all you need to set up a web server.

Microsoft SQL Server 6.5

SQL Server 6.5 represents the state-of-the-art in relational database management technology, with enhancements including increased performance, heterogeneous replication to ODBC subscribers, distributed transaction control, and Internet connectivity.

Microsoft SNA Server 3.0

Makes it easy to connect PCs to IBM mainframes and Asi400 systems. Graphical administration tools help you configure and manage that connectivity, giving users convenient, reliable access to host systems, and administrators easier management of new users and devices.

Microsoft Systems management Server 1.2

The most comprehensive solution for managing an entire enterprise-wide system or a 20-node network; an easy way to manage your system that also helps you control administrative costs.

Microsoft Exchange Server 4.0 (with free upgrade to 5.0)

A highly scalable messaging solution integrating e-mail, group scheduling, electronic forms and GroupWare applications.

Proxy Server 1.0

The Microsoft Proxy Server is the easiest and most secure way to bring Internet access to every desktop in an organisation.

MSS031	MS BackOffice	$3459
MSS032	MS BackOffice u/g	$1225
MSS034	MS BackOffice Client License 5 pack	$1799
MSS035	MS BackOffice Client License 5 pack u/g	$629
MSS036	MS BackOffice Client License 20 pack	$5759
MSS037	MS BackOffice Client License 20 pack u/g	$1999
MSS033	Upgrade from any BackOffice Server component (SQL, Exchange, SNA, SMS, NT)	$2825

All prices INCLUDE sales tax. Prices subject to change, see page 3 for terms & conditions.

Choose a Free CD with every order!*

*Full product as shown - OEM packaging. Packaging shown for display purposes only.

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2 STARFISH INTERNET UTILITIES

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3 BODYWORKS V3

Learn all about the human body with multi-media guide.

4 TURBOCAD V1 WINDOWS

The most significant release of any CAD software this decade

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EZ Language V1 is the fun & easy vocabulary pronunciation tutor for 7 different languages

6 LEONARDO THE INVENTOR

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- CD-Rom also includes PaperPort by Visioneer, which launches automatically during scanning and allows the user to organise, file and copy to other applications with point-and-click ease
- Includes OmniPage Lite OCR Software

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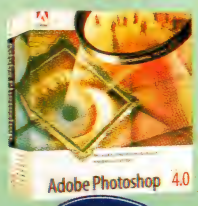
- Prepare images for the World Wide Web & more!



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ADO033 Photoshop Upgrade separately..... **$300**

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HWP245 HP ScanJet Document Feeder (HP 6100C)..... **$589**

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Full software – Includes online help, however manuals not included

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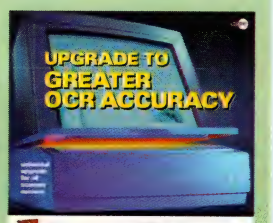
Omni page pro8.0 the latest version of the world's best selling optical character recognition (OCR) software, lets you quickly and easily convert scanned pages into computer editable documents, more accurately than ever before. Other new features include enhanced integration with Microsoft Word, and multithreading for faster processing.



- Unsurpassed accuracy over 99%* ACCURATE
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* on laser quality documents

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PC LAPTOPS

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

Aptiva Series from IBM

Aptiva S Series

The Aptiva S Series continues to set the standard for the ultimate in home computing with its award winning split system design, superior multimedia, powerful communications and the latest technologies. The S Series introduces 2nd generation of the Split System design which is now easier to use than ever before with the addition of the new EZ Buttons keyboard and ScrollPoint mouse. The S Series comes well equipped for the most demanding PC enthusiasts and gamers with Sound by Bose featuring TrueSpace and Acoustimass technologies, ATI 3D Range Pro graphics w/2x AGP DVD-ROM II drives and 2nd generation Pentium II processors. In addition, the Aptiva S Series includes a complete suite of internet applications features Voice-enable, Netscape Navigator and a total home communications system with RingCentral.

Features:
- Architecture: Mini tower (6x6)/media console (0x2)
- Processor: Pentium II 233MHz
- Memory : Standard / Maximum 32MB/ 384MB
- CD-ROM speed: DVD-2 (Digital Video Disc)
- Disk capacity : 4.2 GB EIDE
- Monitor : 15"
- Graphics type: SVGA (with 3D graphics)
- Video RAM Std/max: 2MB/4MB
- Graphics bus interface: PCI
- Software: Pre-installed is a large selection of useful software, including Louts SmartSuite
- Warranty: Limited warranty - One year On-site

IBM

IBM103 Aptiva S Series **$4349**

Aptiva L Series

The Aptiva L Series has been designed for the family that wants to get the most in education , learning, productivity and fun from a home PC. The L Series comes packed with many of the latest technologies, including a custom-designed Bose audio system and Arcade 3D graphics capabilities that enhance the multimedia learning and entertainment experience.

With is sleek black design, the Aptiva L Series components are styled to integrate seamlessly with one another.

Benefit from Software Warehouse's buying power & market leading pricing when you buy your computer

Features:
- Architecture : Mini tower
- Processor : Pentium with MMX technology 166MHz
- Memory : Standard / Maximum 32MB/ 384MB
- CD-ROM speed : 24x maximum (variable speed)
- Disk capacity : 2.1GB EIDE
- Monitor : 15"
- Graphics type : SVGA (with 3D graphics)
- Video RAM Std/max : 2MB/4MB
- Graphics bus interface : PCI
- Software : Pre-installed is a large selection of useful software, including Louts SmartSuite
- Warranty : Limited warranty - One year On-site

IBM

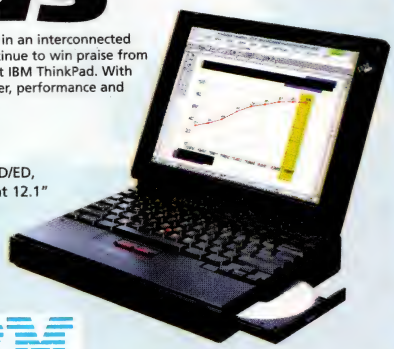
IBM102 Aptiva L Series **$2699**

IBM ThinkPads

IBM's award-winning ThinkPad family of notebook computers provide the most powerful and convenient way to work anywhere in an interconnected world. IBM is dedicated to delivering the highest quality notebook computers in the industry. Year after year, IBM ThinkPads continue to win praise from around the world and throughout the industry. The competition is moving fast; you've got to move faster. It's time to think about IBM ThinkPad. With eye-catching design, clear, brilliant displays and powerful Pentium processors, IBM ThinkPads provide the ultimate in mobile power, performance and affordability.

IBM ThinkPad 380ED

All-in-one convenience, versatility and power. The new integrated design offers a diskette, CD-ROM (standard on 380D/ED, optional on 380 and 380E) and hard disk drive in one convenient package. Add a powerful Pentium processor, brilliant 12.1" display and spacious hard drive. With the ThinkPad 380, the power of a desktop meets the personality of a ThinkPad.

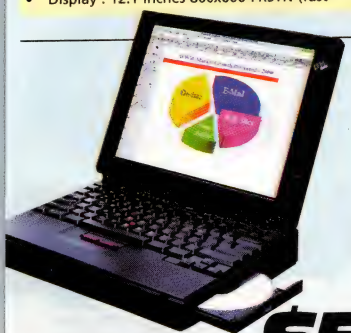


Features
- Model : Model 26355AA
- Processor : Pentium with MMX technology 166MHz
- Memory - standard / maximum : 16MB/80MB
- CD-ROM speed : 8X-20XCD-ROM
- Disk capacity : 2.1GB (S.M.A.R.T. EIDE)
- Multimedia functionality
- Display : 12.1 inches 800x600-FRSTN (fast response super twisted nematic)
- Battery Life : Li-ion/20hrs
- Port Replicator connector
- Weight : 3.2Kg Height:62mm Width : 300mm Depth : 233mm
- Installed operating system : Microsoft Windows 95
- **Includes Microsoft Office 97 Small Business Ed. (Worth over $500)**

IBM

IBM101 ThinkPad 380ED.. **$4749**

IBM ThinkPad 380D



All-in-one convenience, versatility and power. The new integrated design offers a diskette, CD-ROM and hard disk drive in one convenient package. Add a powerful Pentium processor, brilliant 12.1" display and spacious hard drive. With the ThinkPad 380, the power of a desktop meets the personality of a ThinkPad.

Features
- Model : Model 26355AA
- Processor : Pentium with MMX technology 166MHz
- Memory - standard / maximum : **32MB**/80MB
- CD-ROM speed : 8X-20XCD-ROM
- Disk capacity : 2.1GB (S.M.A.R.T. EIDE)
- Multimedia functionality
- Display : 12.1 inches 800x600-FRSTN (fast response super twisted nematic)
- Battery Life : Li-ion/20hrs
- Port Replicator connector
- Weight : 3.2Kg Height:62mm Width : 300mm Depth : 233mm
- Installed operating system : Microsoft Windows 95
- **Includes Microsoft Office 97 Small Business Ed. (Worth over $500)**

IBM

IBM100 ThinkPad 380D..... **$5399**

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The last thing you need is more work – so Your Eyes Only protects your confidential files automatically and transparently. It prevents unauthorised users from tapping into your computer files, but that's not all: It actually stays with your files, wherever they go. Unauthorised users can't. It's that simple. Unique patent-pending SmartLock encryption makes security totally automatic. Just designate which directories you want to secure and the files in those directories become automatically decrypted when you open them with passwords.

Designed for Microsoft Windows'95

Academic pricing available

SYMANTEC.

SYM061 Norton For Your Eyes Only 4.0 Win 95 3.5" **$129**

SYM004 Norton For Your Eyes Only 4.0 10 User Win 95 ..... **$995**

pcAnywhere

Easy remote access to PCs from anywhere, anytime!

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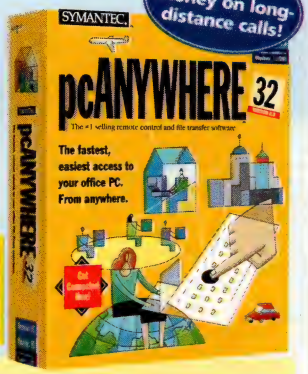

pcAnywhere 32 for Windows 95 and Windows NT is the fastest, easiest way to remotely access PCs, applications, and information from a home or office PC or network. Make quick, easy connections via modem, network, or the Internet to check e-mail, remotely support clients, download files, or simply run remote applications. Expanded Internet support, with SmartList and advanced security options, allows you to easily and safely access your PC while saving on long-distance phone charges.

EDUCATIONAL pricing AVAILABLE

Features

- Enhanced performance– 20% faster than previous versions, to increase productivity and minimise connection costs.
- AutoXfer– Automatic file transfer and synchronisation quickly and easily provides you with the most current version of remote files
- ColorScale– Improves screen refresh rates so you can work faster
- SpeedSend– Transfer only the parts of the files that have changed. Fast.
- Optimised desktop– Unique speed options disable host wallpaper, screen savers and full window dragging, for faster remote control.

SYMANTEC.

SYM170 pcAnywhere V8.0 ..... **$199**

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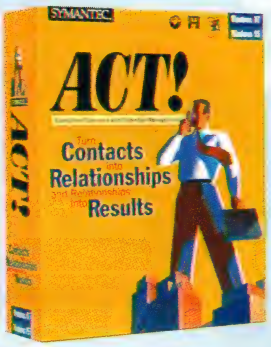

Turn contacts into relationships and relationships into results with ACT!™ for Windows. A ready-to-use contact database and integrated calendar make ACT! the most complete solution for effectively managing your business relationships. Know your clients well. ACT! gives you instant access to important facts about your clients and customers. Collaborate with others. ACT! makes it easy to share information with other team members for more effective sales calls. Plus, ACT! has networked calendar functions that make it easier to schedule meetings.

EDUCATIONAL pricing AVAILABLE

Features

- Flexible customer database– Get started right away with 70 preset user fields
- Customise the database with your own fields, custom screens and on-line forms
- Work in form or list view
- Find contacts fast with instant lookups
- Attach files, such as spreadsheets and documents, to your contacts
- Record date and time stamp notes for each contact

SYM053 ACT 3.0 WIN 95/NT CD/3.5 ..... **$249**

SYM081 ACT 2.0 WIN 3.1 3.5 ..... **$199**

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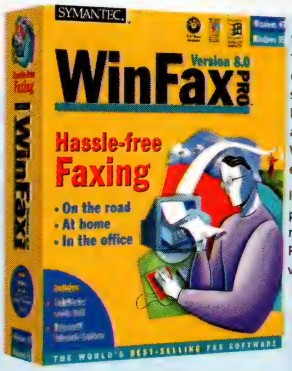

True background faxing allows you to continue working while your fax is being sent. Send faxes twice as fast thanks to enhanced file compression. The world's best-selling fax software just got even better with the new Delrina Pager. Have your computer page you to alert you of incoming fax messages. Best of all, WinFax PRO's fax quality has never been better - even faxed photos will look great.

It's easier, faster, and smarter. Why waste time printing out documents and feeding a fax machine? Fax right from your computer. WinFax PRO is easy to install and use step-by-step wizards which show you exactly what to do.

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Make unlimited calls regarding installation, configuration and general usage for 90 days starting with your first call

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WinFax PRO ensures clean, laser-quality faxes every time.

YOUR FAXES WILL LOOK GREAT. AND SO WILL YOU.

Help your small business save time and money.

Get your documents out faster and your money quicker - fax right from you favourite Windows programs. Send contracts, bids, invoices, and more in seconds. And save on phone charges by scheduling faxes for off-peak hours.

Designed for Microsoft Windows'95

Academic pricing available

SYM068 WinFax Pro V8.0 ..... **$125**

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IBM Voicetype Simply Speaking for Windows 95 & NT

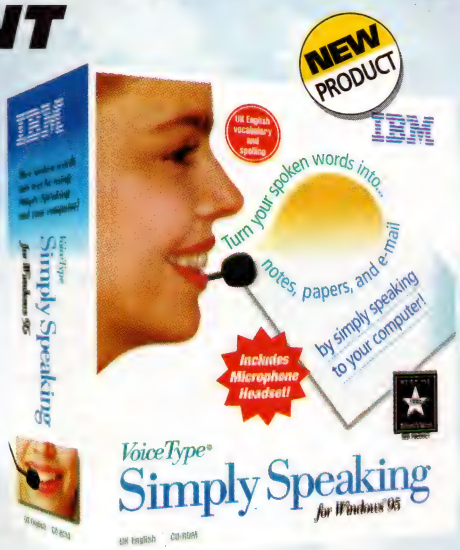
IBM's new dictation software, Voicetype Simply Speaking, is for anyone who would rather talk than type. Imagine sitting in front of your computer and simply saying what you would normally type. Just plug in the headset microphone, which is included in the box, complete the easy installation process and start using your computer in a new, fun and productive way.

Voicetype Simply Speaking uses IBM's award winning Voicetype speech recognition technology and is the result of more than two decades of IBM research and development expertise. This means that every component of the program has been developed and tested to the highest industry standards.

Voicetype Simply Speaking works on desktop and mobile computers and is ideal for students, home computer users and small offices. It requires Windows 95, and a Pentium 100 MHz computer with 16 MB RAM, 38 MB of free hard disk space, a double speed CD-ROM drive, and a SoundBlaster 16 or MWave compatible sound card.
Now virtually anyone can start talking to their computer with IBM Voicetype Simply Speaking - it's fun, fast and easy.

Whatever you normally type, you can simply say it with Voicetype Simply Speaking
* Catch up on correspondence
* Dictate e-mail
* Complete Essays, theses, reports and more!
* "Simply speak" lesson plans, lectures and speeches
* Finish writing that book!

Typical Uses
* Correspondence
* E-mail and faxes
* Reports
* Essays and assignments



Features:
- Typical accuracy of over 95% after optional enrolment
- Voicetype Simply Speaking learns as you use it, steadily increasing in accuracy
- Recognises 'discrete' speech (speaking with a slight pause between words) at speeds of 70-100 words per minute
- Includes a vocabulary of 30,000 UK English words, with room for 27,000 additional words
- Dictate with your hands and eyes free
- Full audio playback of your dictation if required for corrections

Designed for Microsoft Windows 95

STOCK CODE: IBM070 **$85**

IBM071 Simply Speaking Gold **$165**

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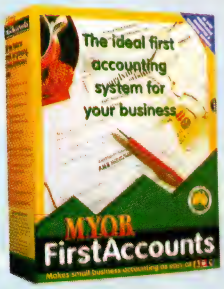
Your ideal first accounting system. M.Y.O.B. FirstAccounts makes it easy for you to track income and expenditure, reconcile bank statements, create and print invoices, statements, and purchase orders, track who owes you money and who you owe money to. Produce Profit & Loss and other key reports with a mouse click.

Outgrow personal Finance Programs?
Unlike personal finance programs M.Y.O.B. FirstAccounts is designed exclusively for business. It has the features small, but growing businesses need. You can easily move up to M.Y.O.B. FirstAccounts with out re-entering any transactions.

MYO025 M.Y.O.B. FirstAccounts **$179**



M.Y.O.B. PREMIER ACCOUNTING

Introducing the world's finest multi-user accounting system. Premier brings the power, flexibility and award winning ease-of-use of M.Y.O.B. to multiple concurrent users. Includes access for 3 concurrent users - additional licenses easily added.

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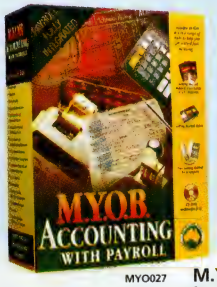

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M.Y.O.B Accounting with Payroll gives you all the power and flexibility of M.Y.O.B. Accounting plus a fully-integrated Payroll system. Process your payroll and the rest of your accounting system is instantly updated.
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Prints group certificates, paycheques and generates file for your bank to auto-pay staff via bank transfer.

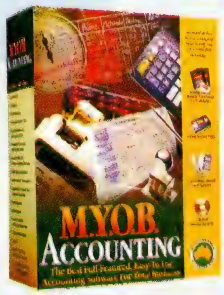
MYO027 M.Y.O.B. Accounting with Payroll **$489**

M.Y.O.B. Accounting V7

Bulging with powerful features yet is just as easy to use as all M.Y.O.B. products. It's the perfect partner for growing business and has class-leading reporting, inventory and purchasing management as well as unmatched flexibility.
Features include General Ledger, Chequebook, Sales & Receivables, Purchases and Payables, Powerful Inventory management with automatic build, buy and back-order. Includes over 100 management and financial reports.

"...a fun, flexible package that balances functionality with ease of use."
Price Waterhouse report, PC Magazine.

MYO026 M.Y.O.B. Accounting **$349**



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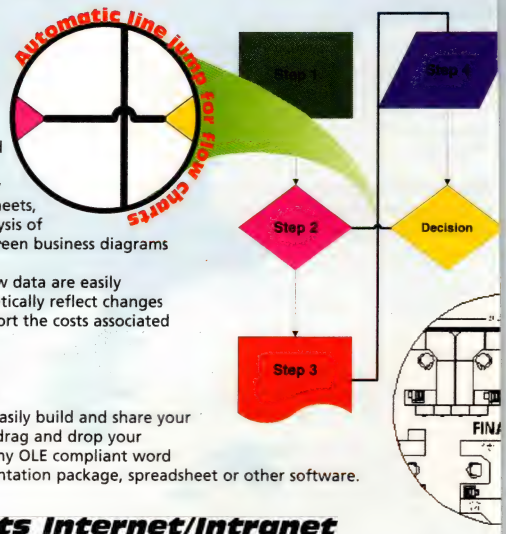
Visio Standard 5.0

The smartest way to create all your business diagrams

With Visio you can easily create any kind of business diagram - everything from timelines to network diagrams to office layouts.

Diagrams for all business users

Visio Standard is designed to help increase the productivity of mainstream business users by allowing them to easily communicate and track work projects and flow, reporting structures, and concepts or systems. Visio Standard allows business users to visualise information commonly stored and distributed in databases and spreadsheets, thus avoiding complex and time-consuming analysis of data and figures. In addition, dynamic links between business diagrams and the databases and spreadsheets that hold the raw data are easily integrated - so an organisation chart can automatically reflect changes in an employee database, or a flowchart can report the costs associated with a new process.



Microsoft compatible

Visio is Microsoft compatible enabling you to easily build and share your business diagrams. Best of all you can simply drag and drop your diagrams into any OLE compliant word processor, presentation package, spreadsheet or other software.

Ideal for :

- Quality
- Sales & Marketing
- Finance
- Human Resources
- Administration

Features :

- Flowcharts
- Project Timelines
- Block Diagrams
- Relationship Diagrams
- Organisational Charts
- Network Diagrams
- Total Quality Management
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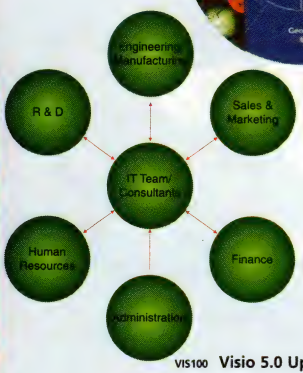
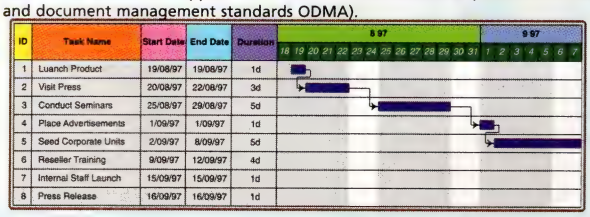
- Directional Maps



Supports Internet/Intranet Standards

Visio Standard also helps you get your visual information out to the people you need to via its built-in support for Internet/Intranet standards (HTML and ActiveX) and document management standards ODMA).



ID	Task Name	Start Date	End Date	Duration
1	Launch Product	19/08/97	19/08/97	1d
2	Visit Press	20/08/97	22/08/97	3d
3	Conduct Seminars	25/08/97	29/08/97	5d
4	Place Advertisements	1/09/97	1/09/97	1d
5	Seed Corporate Units	2/09/97	8/09/97	5d
6	Reseller Training	9/09/97	12/09/97	4d
7	Internal Staff Launch	15/09/97	15/09/97	1d
8	Press Release	16/09/97	16/09/97	1d

VIS100 Visio 5.0 Upgrade $169

VIS101 Visio 5.0 10 user license pack $1825

Designed for Microsoft Windows 95

$249

STOCK CODE: VIS099

Technical

Create and share technical drawings

Visio Technical users are professionals using technical-orientated drawings. Visio technical is ideal for Engineers, designers, and architects who often need to communicate with technical measures and schematic drawings.

Visio Technical includes everything in Visio Standard as well as some powerful new features.

Its ability to import and export DWG/DXF files lets users share their Visio Technical drawings with AutoCAD users, and visa-versa. With Visio Technical's new Database Wizard, you can link a Visio Technical shape or drawing to external ODBC-compliant databases. It includes a 32-bit version for Windows, Windows 95 and NT 3.51 and Office 97 Compliant.

VIS102 Visio Technical Upgrade $299

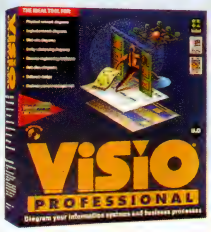
VIS103 Visio Technical 10 user license pack $3849

$549

STOCK CODE: VIS107

Visio Professional

For the IT experts!



Visio professional users are IT professionals- such as LAN Managers, IT directors, Database Analysts, Software Developers and Web Masters- and Business Process professionals. They need to visualise the IS infrastructure that underlies their organisation and the process that make their business run.

Visio Professional includes everything in Visio Standard and features great new content: new SmartShapes® symbols, like IDEFØ process shapes, over 350 new network equipment shapes; application development methodologies like Booch, Youdon, Fusion and more; all new wizards for database mapping and design/creation, web site and network diagramming; and improved database connectivity. In addition, Visio Professional includes Microsoft Visual Basic for Applications (VBA), making it even easier to create and distribute custom Visio solutions.

VIS104 Visio Professional Upgrade $299

VIS105 Visio Professional 10 user license pack $3849

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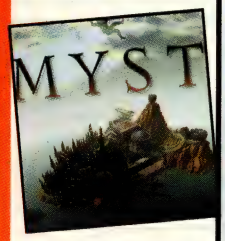
MYS001



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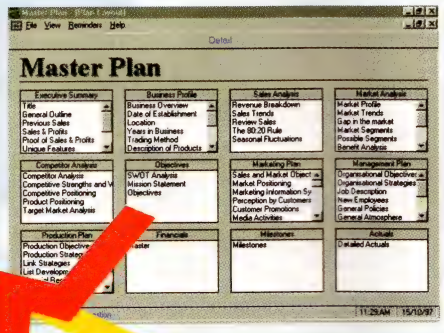

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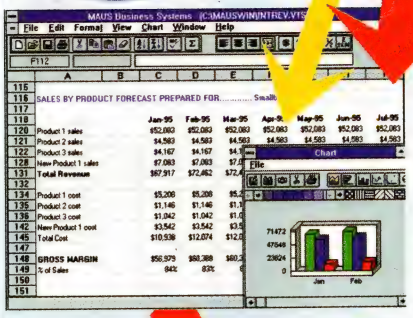

Market Analysis

Maus MasterPlan will help you carry out a comprehensive SWOT analysis of your business. Its in-depth analysis of your company, products, competition and industry will enable you to capitalise on opportunities and prepare for potential threats in the marketplace.

Automatic Financials

Simply type your key expense and sales assumptions into the financial program and let the computer do the rest! Statements automatically calculated include Profit & Loss and Cash Flow statements, Sales Forecasts, Break-Even Analyses and Graphs. Just released, the new version even includes a Balance Sheet, Ratio Analysis, Actual v's Budgeted Comparisons and new user friendly Financial Wizards.

Runs on Windows 3.1 & Windows 95

Key Benefits

- Creates complete Business & Marketing Plans
- Suitable for business people of all levels
- Creates full financials & graphs
- Includes a simple step-by-step tutorial

Key Uses

- To Raise finance
- Increase profits
- Manage expansion
- Start a new business
- Impress your boss

What the Press are Saying

"The brilliance of this system is that you're led through the entire process step by step... the results will be as good as anything a professional would have provided for you"
Your Computer Magazine

"(MasterPlan)... is a business tool par excellence, turning a grim chore into a fast, pleasant exercise... Extensive templates make the program a breeze to use"
Australian Small Business & Portfolio

MAUS MasterPlan – The market leader!

- Finalist 1995 & 1996 - Channel 9 'Small Business Show' software awards contested by over 400 companies.
- 100% Australian with 1000's users across Australia.
- Used in TAFE & University courses Australia wide including MBA Programs.
- Recommended Resource - NSW Government's 'Export Access Program'.
- Used by Agribusiness students at Melbourne's Monash University to win an International Business Planning contest.

Product Summary

- MAUS MasterPlan - Level 1 (Standard) : Software to help you prepare a simple Business Plan only and a full set of accompanying financials. Suitable for loan applications.
- MAUS MasterPlan - Level 2 (Professional): Software to help you prepare either a simple Business Plan or a more detailed Business Plan which incorporates a full Marketing Plan and analysis. Includes full financial analysis, a follow up program which doubles as a Time Management tool and a FREE Business Planning workbook. Suitable for loan applications, analysing and improving an existing business, launching new products, or starting a new business.

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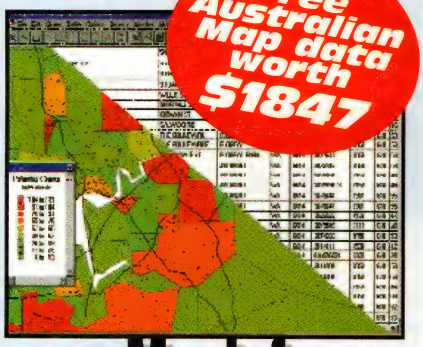

Analyse and understand your business data with remarkable clarity and speed.

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Reveal - By layering your data together with the help of maps, MapInfo Desktop creates a picture of your business revealing new relationships, patterns, and trends.

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- Analyse marketing programs
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- Track insurance risks

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- Delivery/Pickup
- Distance calculation
- Route planning

Government
- Resource allocation
- Public Opinion polling
- Tracking public works

Emergency Services
- Call scheduling
- Hazardous materials control
- Fire hydrant location

Dispatching
- Address location
- History of activity
- Nearest station
- Zone Analysis

Analyse - Suddenly, you can see, analyse and understand your business data with remarkable clarity and speed

Uncover - Uncover hidden opportunities you always knew were there, but simply didn't have the tools to see... that's the power of desktop mapping.

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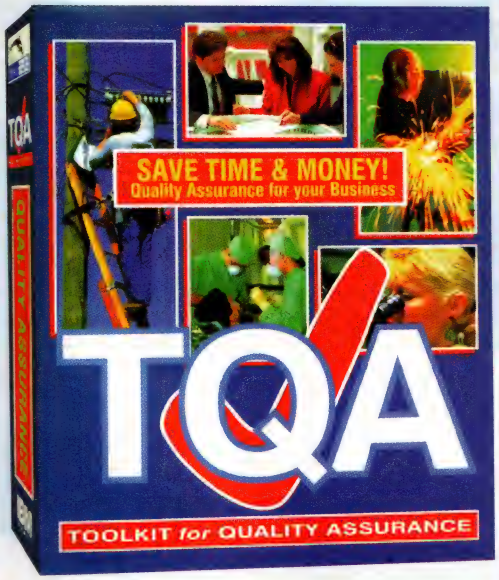

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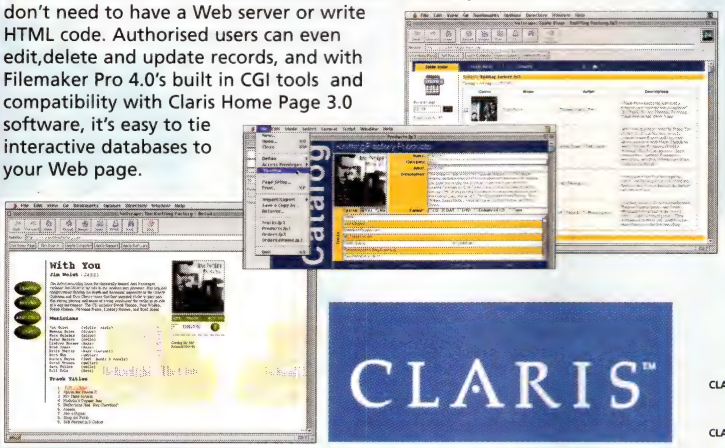
EVERYTHING FOR YOUR PC - DELIVERED NATIONWIDE!

Claris FileMaker Pro

FilemakerPro allows you to Create and Share relational databases On The internet

New Filemaker Pro 4.0 is a comprehensive data management program powerful enough to organise and use all of your information on your desktop, across your network and over the World Wide Web. Using built-in HTTP functionality, you can instantly make company directories, course listings and other Filemaker Pro databases viewable with ordinary Web browsers: so you don't need to have a Web server or write HTML code. Authorised users can even edit,delete and update records, and with Filemaker Pro 4.0's built in CGI tools and compatibility with Claris Home Page 3.0 software, it's easy to tie interactive databases to your Web page.



CLARIS™

CLA046 FileMaker Pro 4.0 ..... **$289**

CLA045 FileMaker Pro 4.0 U/G **$119**

Trivial Pursuit!

AUS123

Only $45

Every question is accompanied by relevant clips in full video!

For a limited time only.

ClarisWorks Office 5.0

The smartest all-in-one software for business, education and home!

All the Office You Need

Claris Works Office Software is the office productivity program that speeds you through every business task. Claris Works Office 5.0 the all-in-one program which integrates word processing, graphics, spreadsheet and database into ine powerful yet simple-to-use program. ClarisWorks Office is also your on ramp to the internet and comes with web page design tools. So you can surf the net, exchange email and create web pages for your business in no time. This prpogram lets you take control of your entire office – guiding you step-by-step through creating news letters, mailing labels and more; linki8ng to URL's from within yor documents and launching other applications– all from its handy Button Bar. It all adds up to a powerful set of productivity tools for your business.

Claris Works Does it all

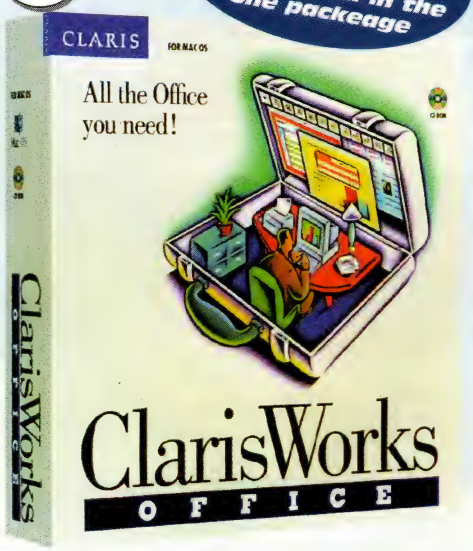
Whatever you need to do to succeed in business and education it's easier to do with ClarisWorks Office! With 175 customisable documents to use, the ability to launch other applications, and easy Internet access you will wonder how you managed before you had this integrated program.

Features:

- The ExpressStyle feature redefines the stylesheet metaphor, enabling users to instantly format not only text and paragraphs, but also graphics, outlines and tables.
- FastReport automates searching, sorting, and reporting of frequently used data
- ReadyArt Libraries allow users to store and organise frequently-used clipart images (500 images are included).
- Mail Label, Home Finance, and Certificate Assistants supplement more than 40 other Assistants and templates to offer step-by-step guidance and expert advice on document layout, design and content or help with complex tasks.

NEW VERSION

Spreadsheets, word processing, databases and graphics, all in the one packeage



CLARIS™

Stock code: CLA043

$169

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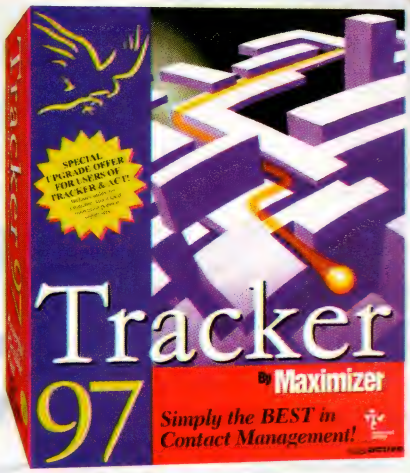
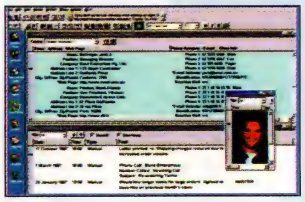
Tracker 97

Simply the BEST in Contact Management!

NEW VERSION

Tracker is the award winning way to keep up with your contacts and find new prospects. Call up any information almost instantaneously, from names, numbers and addresses to personal information. Tracker keeps a detailed running history of all your contacts, including letters, phone calls, meetings and more. With Tracker nothing falls through the cracks, so you'll never miss another opportunity.

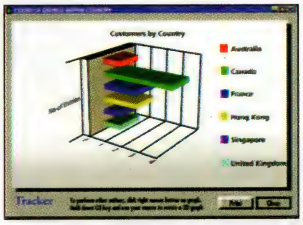




Link to the Internet and Email
You're just a pushbutton away from the the Internet and your favourite email applications or Web browsers. There's no need to exit Tracker! Download Internet files or messages right into your Tracker customer files and attach email to contacts.

Stop Juggling Software!
You can do everything from Tracker! Create your own macros and toolbars to launch your most commonly used functions and software programs. DDE and OLE support lets you link your customer records to spreadsheets, documents, graphs, photos or multi-media files in other applications.

Networkable for your Whole Sales Group
Tracker is the ideal tool for sales force automation. It"s networkable right out of the box, with group scheduling, communications and other features that turn your sales force into a lean, mean selling machine.



Receive and Send Email Automatically
Now you never have to leave your Tracker Desktop. And, if it recognises the sender's address, Tracker automatically attaches the messages to that sender's file in the address book! No more searching through poorly organised email filing cabinets.

Retrieve Information Instantly!
With Tracker, you're only a split-second away from any customer information you need. Just enter a name, date or keyword. Tracker delivers the information in a fraction of the time other contact managers can perform in.

Communicate with the Masses
Mass mailings, broadcast faxes and group emails are a breeze with Tracker. Use the mail merge feature to prepare lists for sales letters, group thankyous, etc. Tracker personalises them for you.

Designed for Microsoft Windows 95

Stock Code TRA021

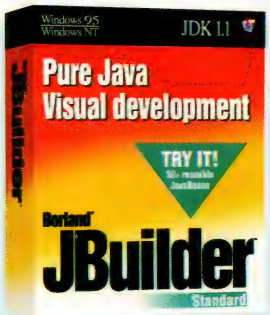
$259

Call for licence pricing

Borland JBuilder

NEW PRODUCT

JBuilder delivers 100% Java code creation in a fully scalable, extensible and reliable environment



With its 100% pure Java code creation, JBuilderís most productive visual development environment will give your company a competitive edge. JBuilder provides what your business requires most: scalability, extensibility, and reliability.

JBuilderís best database integrates and support allows the creation of professional business applications that scales from the desktop all the way to the Enterprise.

JBuilderís open architecture based on JavaBeans delivers an unmatched extensibility that lets you create, use and reuse JavaBean components. By supporting industry standards, JBuilder lets you create applications that wonít confine you to a proprietary standard. In addition, JBuilder provides a reliable environment based on the latest JDK 1.1, a solid architecture, and a well-proven compiler technology.

Academic pricing available

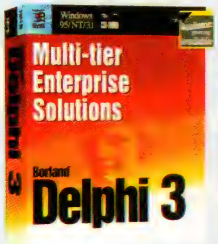
Stock Code BOR170

$149

Features
- Component Designer lets you visually design Java components or applications
- Large library of reusable BAJA/Java Bean components
- Supports 3rd party and user defined components
- Two-way tools keep visual design and source code in sync
- AppBrowser provides fast negation and management of source code.

Borland Delphi 3.0

Delphi 3.0 the high performance RAD tool for windows and C/S development.

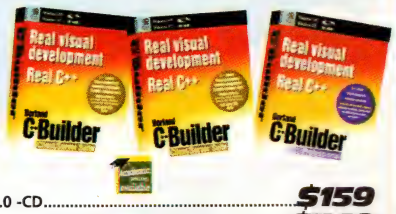


Delphi 3 delivers a competitive advantage to the professional developer by combining visual component-based design with the worlds fastest compiled performance and the most comprehensive set of client and server development tools for creating distributed enterprise and Web-enabled applications

BOR147	Delphi 3.0 Professional	$799
BOR168	Delphi 3.0 Professional U/G	$349
BOR151	Delphi 3.0 Professional C/G	$459
BOR148	Delphi 3.0 Client Server	$2599
BOR152	Delphi 3.0 Client Server C/G	$2219
BOR153	Delphi 3.0 Client Server U/G	$1309

Borland C++Builder

Real Visual Development. Real C++
Now, for the first time, use C++ for all stages of development, from prototype to production. With new C++Builder, you get the unprecedented power and control of C++ in a fast, flexible, and visual Rapid Application Development (RAD) environment.



BOR138	C++Builder Standard 1.0 -CD	$159
BOR139	C++Builder Professional 1.0-CD Crossgrade	$349
BOR140	C++Builder Professional 1.0-CD	$849
BOR141	C++Builder Client/Server 1.0 Crossgrade-CD	$2149
BOR142	C++Builder Client/Server 1.0-CD	$2599
BOR143	Learn to Program with C++ Builder 1.0	$89

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Lotus SmartSuite 97

The only desktop solution for your team!

SmartSuite 97 delivers a complete set of up-to-date, 32-bit applications specifically designed to take advantage of Windows 95 and Windows NT. Each application provides support for long file names, drag and drop, multitasking, and many of the other features of these advanced operating environments.

Office suites have changed substantially since the category in the late 1980s. From loose collections of applications, such as spreadsheets, word processors and databases, suites have evolved to offer consistency among applications, cross-application integration, and streamlined access to applications, files and tools. SmartSuite 97 delivers specialised tools for finding, publishing and sharing Internet information. It also features Team Computing which defined the standard for desktop based collaborative tools. SmartSuite 97 delivers advanced workflow, cross applications automation,and more aggressive exploitations infrastructures with full 32-bit applications which exploit the operating environment.

With SmartSuite 97 you have tools to find and retrieve all the information you need. Users need to personalise their applications and much of SmartSuite is configurable to suit your individual needs.

Designed to take advantage of Windows 95 & Windows NT

The suite that brings the world to your desktop!

SmartSuite 97

- **Lotus 1-2-3 97** is a completely redesigned, 32-bit spreadsheet that delivers a host of new and enhanced capabilities to automate everyday tasks and simplify processes.
- **Lotus Word Pro 97** provides users all the tools they need to quickly and easily create powerful, compelling, great-looking documents.
- **Lotus Approach 97** leads the database world in delivering an unparalleled combination of ease-of-use and power.
- **Lotus Freelance Graphics 97** continues its long tradition of simplifying the creation and delivery of highly effective presentations.
- **Lotus Organiser 97**, the award-winning personal time management system, is now a complete 32-bit product with support for Windows 95 and Windows NT.
- **Lotus ScreenCam 97** is a fast, easy way for users to show what they mean when they can't be there in person. With ScreenCam, a PC acts as a VCR to record every on-screen click, scroll, and action. Captions and sound can be added to create mini-movies, delivering marketing messages, on-line tutorials, or product demonstrations. These on-line movies can be shared with anyone, even if they do not have ScreenCam installed. ScreenCam is a completely redesigned, 32-bit application.
- **Lotus SmartCenter 97**, the Suite's customisable command centre, keeps users organised and gives them ready access to their work-in progress, calendar and address book, and even the Internet. Just a click away, SmartCenter's drawers provide a central place for users to get the latest news and weather, organise the day's work, find reference material, or write themselves a reminder. New drawers in SmartCenter 97 give users fast automatic links to the Internet to search for information and favourite bookmarks, and get just-in-time help from Lotus Support Pages on the Web.

Every application in the suite includes a host of innovations and improvements designed to help users:

- Increase their individual productivity
- Access data from anywhere
- Leverage the power of the Internet and Intranets
- Share and collaborate more efficiently

Lotus

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U/G $339

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GVA007

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ReachOut - Remote Access

Reach Any PC, From Everywhere, Everyway

Away from your office, but need remote access to files, data, or application from your PC? It's easy with the award winning ReachOut 7.0 from Stac. ReachOut is the only all-in-one box solution to provide remote access from, and to virtually any PC running Windows NT, Windows 95, Windows 3.1, or DOS.

For after hours workers, business travellers, telecommuters, home office workers, mobile executives, road warriors, and held desk personnel. Access all files, applications, and databases. Ideal for sending and retrieving important files, editing documents, updating spreadsheets, chatting, or helping remote users.

From everywhere you want to be, Stac's ReachOut 7 provides secure remote access to all files, applications, and databases back on your office PC, your network, or any PC you are designated to access.

Don't have ReachOut with you? No problem! Simply log onto the Internet, use a leading browser to download a ReachOut Passport Plug-in or ActiveX, and within seconds you'll be directly controlling your office PC.

Fast Secure Remote Access

Numerous, award winning security features assure exceptional password, callback, IntruderGard lockout, encryption, and virus checking procedures. ReachOut also offers automatic installation, connection wizards and scripts, and simple drag and drop file transfer.

ReachOut is so fast that using it is just like sitting in front of your desktop and with ReachOut Passport you can remotely access your Internet connected PC using popular web browsers with lighting speed. There's no need to even take ReachOut with you.

ReachOut is a proven winner - outdistancing all other brands in "Choice", "Best", "Recommended", and "First" awards from major computer publications.

Best of all ReachOut is easy to set up and use.

Stac®
www.stac.com

STOCK CODE: STC002

$249

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WinDelete 97

WinDelete 97 - The Only Complete Uninstaller

Your system performs at its peak when it has plenty of disk space to use. WinDelete 97 is the safest and most effective uninstaller that can tell the difference between the garbage and the critical information on your computer's hard drive. WinDelete 97 is the most efficient way to manager your system. Also includes three powerful utilities: full virus protection, a zip utility, and a Windows 95 benchmark making and optimisation tool.

It works with Windows 95 and Windows NT 4.0.

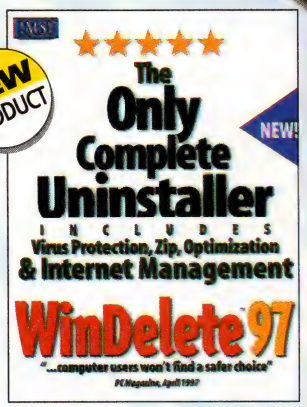
WinDelete 97 Gets Rid Of:

- Obsolete applications
- Duplicate applications
- Unnecessary system files
- Unused icons
- Unneeded fonts
- Lost chains and temp files
- Forgotten backup files
- Nonessential art and multimedia files
- Clutter from the Internet
- & tones of other random useless garbage that you don't even know is hogging your hard drive and crippling your PC's performance.

Includes Internet Management & Full Virus Protection

IMS051 WinDelete 97 ..... **$49**

NEW PRODUCT



Designed for Microsoft Windows 95 IMSI™

Net Accelerator

Go 12x Faster on the Internet!

NetAccelerator speeds you through more of your favourite pages by maximising the efficiency of you modem, browser and telephone line. Whenever you pause to view a site, NetAccelerator stays busy behind the scenes seeking out available links and downloading the related graphics and text. When you choose a link, the downloadable page appears instantly. NetAccelerator adds the efficiency you need to get the most from your time Online. NetAccelerator is the most efficient way to navigate the Internet by saving your time and money.

NetAccelerator speeds you Internet Explorer or Netscape web browsing by using the idle time of your modem, intelligently load web pages in the background. Whenever you pause to view a site, NetAccelerator stays busy behind the scenes seeking out available links and downloading related graphics and text. When you choose a link, pictures and text appear instantly! Users will benefit by having faster access to web pages without any special hardware. NetAccelerator works with standard modems, ISDN and direct network connections.

Features:

- Intelligent caching, utilising the built-in caching support form Internet Explorer or Netscape
- Automatic updates from the web
- Support for both Netscape and Internet Explorer on the same machine (including multiple instances)
- 32 bit only
- Small installation size (2.0 MB)
- Support for Netscape 2.0 and higher Internet Explorer 3.0 and higher

Includes Internet FastFind from Symantec. A suite of powerful search utilities for the Internet.

IMS021 NetAccelerator **$49**

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Six Complete IMSI Products for Family Home Computing!

Design a new addition to your house. Create a flyer for a special occasion. Learn a foreign language. The home collection from IMSI is a variety of top-quality productivity software as unique as the members of your family - a treasury of home products you will use again and again. The IMSI Home Collection contains the newest versions of IMSI's most popular titles, together in one complete collection at an incredible price!

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- **FloorPlanPlus 3D** - design your dream home with ease.
- **Easy language** : 17 language Edition
- **TurboPublisher** - Powerful,professional publishing, made easy.
- **Garden Designer** - complete garden planning and layout.
- **MicroCookbook** - The easiest way to organise your recipes.

AUS160 Home Collection **$79.95**

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Choose from Classic Clip Art, editable Vector Art, 3D Art, MasterPhotos, MasterPhotos Objects, Web Art, MasterFonts, sounds, animations and video clips. The MasterClips line provides more premium images and content choices for any custom publication.

MasterClips Comparison Chart

Content	MasterClips 202,000	MasterClips 150,000	MasterClips 75,000	MasterClips 45,000
Vector Images	87,7000	54,000	54,000	33,000
Dover	47,000	47,000	0	0
MasterPhotos	50,300	47,000	19,000	12,000
Web Art	18,100	1,400	0	0
MasterPhotos Objects	400	0	0	0
MasterFonts	2,000	2,000	2,000	2,000
Sounds	500	500	500	500
Video & Animations	20	20	20	20
Browser	Yes	Yes	Yes	Yes
Editor	Yes	Yes	Yes	Yes
3D Art	Yes			
	IMS104 ...$129	IMS103 ...$105	IMS102 ...$69	IMS101...$45

MasterPublisher

Powerful, Professional Desktop Publishing - Made Easy

MasterPublisher 97 includes six complete products and is THE premium desktop Publishing Suite! Create custom publications for you and your business using the only design package of it's kind. with more powerful tools and valuable content MasterPublisher 97 lets you create custom, high-quality newsletter, brochures, logos, presentations and much more! MasterPublisher 97 Premium Publishing Suite gives you everything you need to be a Master Publisher in one package! TurboPublisher lets you lay out and design professional looking documents. TurboDraw, a full featured drawing and illustration program, helps you create impressive graphics quickly and easily. Also included in Master Publisher are 20,000 Premium MasterClips images, 1,000 stunning MasterPhotos, 2,000 MasterFonts and the powerful browser lets you use keywords and the unique cross-category search engine to instantly find the images you need. Master Publisher Premium Publishing Suite is perfect for newsletters, brochures, greeting cards, signs, presentations, the Internet, school projects, desktop publishing and much more!

Designed for Microsoft Windows 95

IMSI™

AUS160 MasterPublisher **$79.95**

HiJaak PRO V4

HiJaak PRO is the most comprehensive 32-bit toolkit available for the graphics professional.

What ever your graphic needs, this powerful set of tools helps you to do your job better and faster. HiJaak PRO converts 85+ formats - including 3D and full postscript allowing you to view and alter images without the original application. Supported formats include popular raster, vector, metafile and 3D formats.

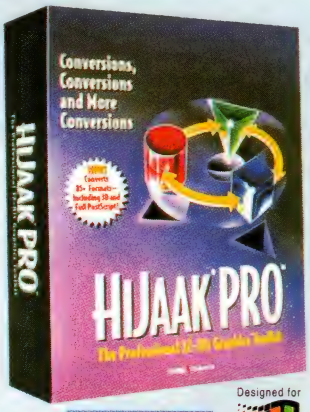
HiJaak PRO gives you all the tools you need to help you do your job more efficiently.

View Images

HiJaak PRO is a powerful program that lets you view, convert, capture, enhance, find and organise images. View over 85 formats without needing the original application. View multiple images in HiJaak PRO's main window. Also create and view extra large thumbnails of images (both 2D and 3D) from within the Windows 95 Explorer. Then launch HiJaak PRO right from the shortcut menu of the file to get the full view. Even view full PostScript Level 2 Files to confirm accuracy before sending them to your service bureau.

Enhance Images

Make adjustments to images easily! There is no need to start another editor to resize, flip, crop, rotate, smooth or grayscale or black & white images out of colour images. Reduce colours using diffuse, snap or halftone. HiJaak PRO also converts raster to vector and prints images and thumbnails.



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Designed for Microsoft Windows 95

IMS050 HiJaak PRO V4 ..... **$139.95**

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VER043

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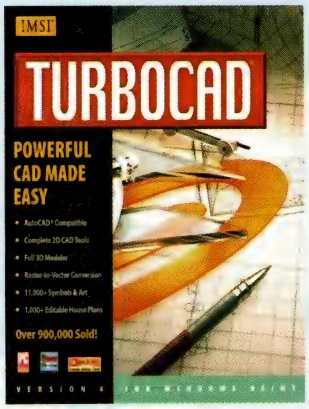
TurboCAD v4!

TurboCAD V4 continues to be the leading value in desktop CAD for the CAD hobbyist, home user or occasional professional user.

TurboCAD V4 offers a powerful solution for the easy creation, refining and communication of graphical ideas through drafting and design techniques. Built on an award-winning history, TurboCAD V4 delivers all the power and precision professionals need with simplicity. TurboCAD V4 is built around ease-of-use without compromising CAD functionality. The intuitive interface allows users to produce professional quality designs and diagrams in minimal time.

TurboCAD V4 offers a powerful solution for the easy creation, refining and communication of graphical ideas through drafting and design techniques. Built on award-winning success, TurboCAD V4 is build around ease of use without compromising CAD functionality or quality. The intuitive Interface allows users to produce professional quality designs and diagrams in minimal time.

These features, combined with advanced tools such as handle based editing, drag and drop symbols, single entry keyboard shortcuts, and raster to vector capability to make TurboCAD V4 the perfect CAD solution in its price range.



CAD CAM RECOMMENDED · WINDOWS MAGAZINE 1995 WIN 100 · PC Plus VALUE AWARD · AUTOCAD COMPATIBLE · IMSI

IMS034 TurboCAD v4 ..... **$189**

TUR012 TurboCAD v4 Professional **$499**

FloorPlan 3D Deluxe

IMSI

Design your complete home, office or garden quickly and easily with FloorPlan 3D Deluxe.

Its full set of precision drawing tools help you create custom walls, floors, doors and window, Complete your design by using thousands of symbols, then walk through it in accurate 3D. FloodPlan 3D Deluxe also gives you TurboCAD 3D to create accurate 3D models, Garden Designer, and complete garden layout and planning guide, Quick & Easy Estimator to get an accurate estimate of your project plus 1500 home an office symbols and 1,001 Home Plans from Homestyles. FloorPlan 3D Deluxe is the premium home and office design suite.

Also includes:

- Quick & Easy Estimator - import your materials list for a cost estimate
- Garden Designer- design your dream garden
- 1,001 best-selling HomeStyle FloorPlans

Features:

- Design your dream home and office in minutes
- Includes a complete set of design tools
- Over 1500 3D symbols including home and office furniture, applications etc
- 3D Modeler and Symbol Editor lets you create custom symbols and rendered 3D models

Designed for Microsoft Windows 95

THR009 FloorPlan 3D Deluxe **$89**

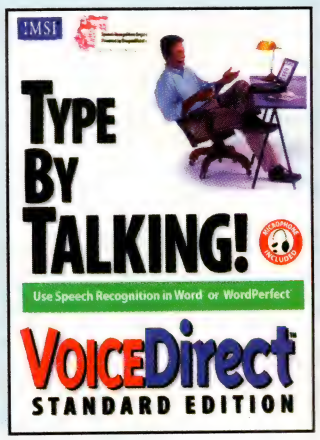
VoiceDirect Standard Edition

IMSI

Discrete speech recognition software with microphone for use with Word & WordPerfect

VoiceDirect Standard edition is discrete speech recognition software powered by Dragon Dictate for people who want to write, type and edit reports by voice instead of typing. dictate directly into Word or WordPerfect by speaking and your computer will carry out your commands, displaying your words on the screen directly in your application. VoiceDirect Standard Edition includes a 120,000 word total vocabulary, which maximises accuracy and minimises time at the keyboard. just open Word or WordPerfect, create detailed reports and get back to work in no time. VoiceDirect Standard Edition is perfect for busy executives with better things to do, than type!

Designed for Microsoft Windows 95



IMS110 VoiceDirect Standard Edition **$79.95**

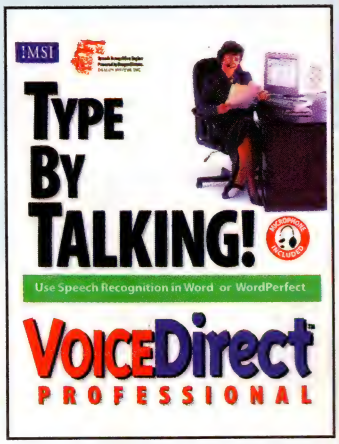
VoiceDirect Professional Edition

IMSI

Discrete speech recognition software with microphone for use with Word, Excel, WordPerfect, PowerPoint & Internet Explorer

VoiceDirect Professional is discrete speech recognition software powered by Dragon Dictate that lets you create, format and move text by voice within virtually any windows application. You can even operate your PC entirely hands free, as you dictate directly into Word, WordPerfect, Excel, Powerpoint, Internet explorer and more. A 120,000 total word vocabulary is included to help you maximise accuracy and minimise time spent at the keyboard. VoiceDirect Professional is perfect for anyone who wants to dictate and edit while referring to notes or documents. Free yourself to be more productive using the PC technology of the future - TODAY!

Designed for Microsoft Windows 95



IMS111 VoiceDirect Professional Edition **$129**

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QuarkXPress 3.32 for Windows

The professionals choice for publishing software worldwide

Soon after QuarkXpress was introduced, it became the standard for excellence in professional publishing. It offered new flexibility and un-heard of precision. Today, QuarkXPress remains the layout and design choice of the world's top publishers. In fact, most of the magazines and newspapers you are familiar with are created with QuarkXPress (this one is). When you need to create business cards, annual reports, full colour brochures, magazines, or catalogue, your publications will benefit from the precision, power, and flexibility of QuarkXPress.

The power of QuarkXPress is harnessed by a simple, intuitive, and elegant interface. Behind the interface is one of the most powerful publishing programs available. Seven floating palettes work together to give you quick access to the sophisticated colour, tools, measurements, document layout, and library controls that have made QuarkXPress the industry standard.

QuarkXPress offers the most sophisticated features available in any electronic publishing program. The included Efi-Color XTension ensures that the colour you see on the monitor matches the colour the colour you get off the press. Built-in trapping controls ensures that colours on the page fit together. With variable-shaped text boxes, automatic drop caps, colour blends, and the ability to flip and scale page elements, you have unlimited possibilities for page design – and the powers to realise those possibilities.

QUA003 QuarkXPress 3.32 for Windows **$1669**
QUA095 QuarkXPress 3.32 MAC/PowerMac **$1949**

Freehand Graphics Studio

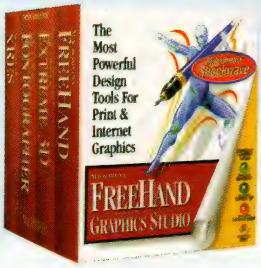
The Most Powerful Design Tools for Print & Internet Graphics

For Windows 95, Windows NT, Macintosh, and Power Macintosh

Move beyond the boundaries of print - take your designs to the digital edge of the Web with the FreeHand Graphics Studio and Macromedia Shockwave. This Studio contains everything you need for stunning graphics in any dimension. Bring the most powerful graphics software together in a single package.

Work seamlessly between all the tools in the Studio and with all your favourite applications.

Mac OS — Designed for Microsoft Windows 95



- **Freehand 7.0** The professional graphics tool for the Macintosh is now available for Windows. Long established as the tool of choice on the Mac, this latest version brings new levels of power, creative control and flexibility to professional graphic designers
- **XRes 3.0** a complete suite of hi-res image manipulation tools recently upgraded it now has full internet "streaming" support
- **Extreme 3D** The easiest and quickest way to move from 2D to 3D graphics with all the power the professional requires, now includes particle animation and meta forms for creating organic shapes and models
- **Fontographer 4.1** Gives you the tools to scan, edit or create your own fonts

MAC017 Freehand Graphics Studio 7 single user (Win) **$695**
MAC027 Freehand Graphics Studio 7 single (MAC/PowerMac) **$695**
MAC038 Freehand Graphics Studio 7 Education single user (Win) **$459**
MAC0041 Freehand Graphics Studio 7 Education single user (Mac) **$459**

Kai's Power Goo

Get Totally Warped with Goo Effects

With this Variety of tools you can GOO absolutely anything you want. Maybe the image of a friend or a member of your family, a famous politician even the family pet can't escape the effects of GOO. Watch on screen as you smudge and alter their image with the revolutionary tool palette that is so easy to use. Use fusion to blend pictures together. Combine the eyes of one image with the face of another.

"Prepare to be Goooed!!!"

KAI003 Kai's Power Goo (Win) **$94.95**
KAI003 Kai's Power Goo (Mac) **$94.95**

Freehand 7.0

FreeHand 7 has the fastest, most comprehensive set of design tools available for creating dynamic graphics and page design in print and on the Web.

Graphics creation and effects tools:

Create spectacular special effect with a complete, vector-based design environment and unparalleled support for bitmap formats, third-party effects filters, vector-based effects Xtras and FreeHand's own powerful effects tools.

MAC029 Freehand Retail (Mac) **$599**
MAC042 Freehand Retail (Win) **$599**
MAC043 Freehand Education (Mac) **$189**
MAC044 Freehand Education (Win) **$189**

Photo Soap

Clean up your image

It's a photo fact! You have to work with lousy photos now and then. So, make sure you've got Soap inside your computer. It fixes bad photos - better than anything else. Change and correct colours, fix "red eye" or remove wrinkles and scratches - all with the whisk of a brush. Crop, rotate, revise and close in real time. Yes, Kai's Photo Soap is a great way to clean up your image.

KAI015 Photo Soap (Win/Mac) **$95**

Bryce 2 Accessory Kit

Stunning Scenes in Seconds

Do you like Bryce? If so, you'll love the Bryce 2 Accessory Kit. Want to be able to access more textures without making them yourself? Want to have a greater choice of terrains and models? Want a sky setting that's just perfect for this job without tweaking for hours in the Sky & Fog controls? Then you'll want the Bryce 2 Accessory Kit - it's packed with modes, terrains, textures and presets - the Bryce 2 Accessory Kit gives you the ability to quickly create stunning Bryce scenes in minutes.

AUS401 Bryce 2 Accessory (Win) **$89**
AUS105 Bryce 2 (PC) **$269**

Convolver

Manipulation Control

One of the best manipulation tools for Photoshop! KPT Convolver is the first program to unlock the incredible power of the Custom Convolution Kernel, that area od imaging mathematics that provides the empirical structures which generate well known effects like Blur, Sharpen, Emboss, Edge detection, Unsharp Masking and more, within a single advanced user interface designed by Kai.

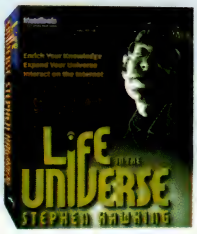
AUS106 Convolver 1 (Win) **$185**
AUS402 Convolver (Mac) **$185**
KAI012 Vector Effects (Mac) **$185**

Life In the Universe

Stephen Hawking

What is life? How did it start? Could it exist on other worlds? Join Stephen Hawking, author of 'A Brief History of Time', on an interactive multimedia adventure that explores "life in the Universe".

The eminent cosmologist and, Professor Stephen Hawking's new CD will show you! His animated "Phage" assistant points the way across virtual 3D terrains, teeming with original animation, through-provoking essays and science games.



KAI011 Life in the Universe **$75**

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IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

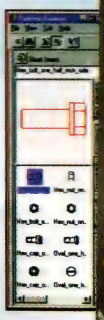
AutoCAD LT 97

The only CAD program that speaks Fluent AutoCAD

NEW VERSION

No matter how much time you spend creating a design, it's wasted if your co-workers can't understand the ideas you want to convey.

Now introducing AutoCAD LT 97 which is the only low-cost, professional 2D CAD application that has 100 percent file compatibility with AutoCAD, the world's best selling design and drafting software. Whether creating your own drawings or simply need access to CAD documents, AutoCAD LT 97 software gives you instant access to files created by over two million AutoCAD and AutoCAD LT users world wide. Perfect for designers or projects that do not require full-blown AutoCAD capabilities. AutpCAD LT97 works as a dreafting tool for preliminary sketches, detail drawings or final designs. And now it's even easier with our new Content Explorer - for dragging and dropping exisiting images and icons – in addition to coplete Internet tools.



Easy to learn, Easy to Use

Within a short time of using AutoCAD LT 97 you will discover the power and capabilities you'd expect to pay thousands of dollars for.

AutoCAD LT 97 looks and feels like software you are already comfortable using. You'll quickly become accustomed to the new zoom and pan features of the Microsoft IntelliMouse along with the right-click shortcut menu.

Familiar Interface

It is fully compatible with Windows 95 and Windows NT 4.0 and has built-in Microsoft Office 97 capabilities.

Faster publishing

With AutoCAD LT 97's new Content Explorer software, you can annotate your drawings, quickly and easily, which lets you drag and drop commonly used blocks and drawing from the hundreds of full-scale, industry-standard symbols included in the box, or from your company's internal libraries.

Smarter Tools

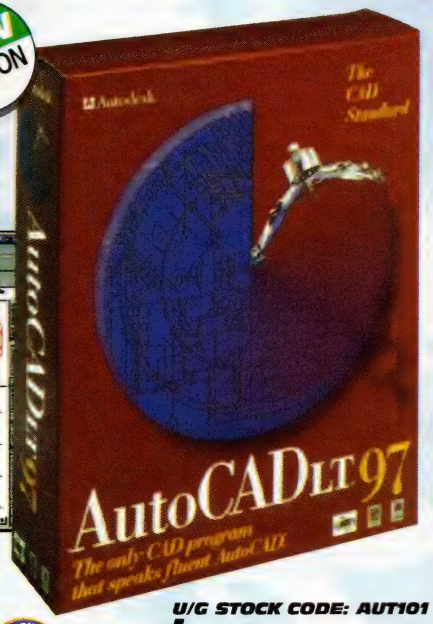
AutoCAD LT 97 provides new tools to help you gent your job done. AutoSnap automatically locates geometric points during drawing and editing, then signals their location. PolarSnap snaps your cursor to incremental angles and distances when you are drawing or editing objects, so you don't have to enter these details at the command prompt.

Greater Productivity

AutoCAD LT 97 offers dozens of productivity improvements over the last release, including Print Preview, ADI plotter support, and network printing.

Effective Training and Help

The AutoCAD LT 97 learning assistance interactive CD-ROM provides more than 50 lessons you can work through at your own pace. And AutoCAD LT 97's Help system makes finding the information you need as easy as using a Web browser.



New Features

- File compatibility
- Improved Performance
- Drag-and-Drop Content Explorer
- Office 97 Compliance
- IntelliMouse
- Integrated Internet Tools
- Quick Precision Drawing Tools
- Self-Paced Online Training
- Enhanced Printing Capabilities
- Solid Fill
- Draw Order Control
- New Objects
- Object Property Toolbar
- Make Layer Current
- Layer & Line-type Properties Dialog Box
- Improved Text Capabilities
- Object Snap Override
- Command-Line Editing
- Preference Dialog Box

Designed for Microsoft Windows 95

WINDOWS 3.1 COMPLIANT WINDOWS NT

WINDOWS 1995 WIN 100

U/G STOCK CODE: AUT101

$369

AUT100 AutoCADLt97 ..... **$799**

Adobe Illustrator Version 7.0

Simply the finest illustration software

Award Winning

The award-winning Adobe Illustrator 7.0 simplifies the task of creating, manipulating, and refining artwork whether you're a desktop publisher, graphic artist, or on-line designer. Enjoy greater productivity with version 7.0's seamless integration with Adobe Photoshop and Adobe PageMaker programs, streamlined interface, speedy handling of large images, RGB colour support, precision, control of type, supports japanese fonts and more.

Compatibility: Seamless integration with the Adobe product family makes it easy to realise any concept. Or take advantage of new RGB colour support, and add your artwork to video. The new Web publishing features makes it easy to publish Adobe Illustrator artwork on the Web. Complete compatibility between the Macintosh and Windows 95 and Windows NT 4.0 platforms means that you can do your best work on the platform of your choice, and then freely move files between systems.

Enhanced colour management: Version 7.0 included ColorSync support for Macintosh and Kodak Digital Science CMC for Windows. Plus color separation support is built-in, for the impeccable quality you demand.

Match your imagination: Use multiple layers to overlay graphics and text, and freely add, remove, view, and hide any element. Choose from almost 50 special effects filter for distortions or nine art effects. Use improved sophisticated typographic tools and controls in Version 7.0 with convenient palettes, new vertical text tools.

Academic pricing available

Adobe

ADO047 Adobe Illustrator 7.0 (Win)..... **$729**

ADO054 Adobe Illustrator 7.0 U/G (Win)..... **$229**

ADO061 Adobe Illustrator 7.0 U/G (Mac)..... **$209**

Adobe Pagemaker 6.5

The hottest Desktop Publishing Software around

Open and work with files smoothly and easily.Adjust master pages and share files to keep projects on the move

ADO031 Adobe Pagemaker 6.5 (Win)..... **$979**

ADO032 Adobe Pagemaker 5.0 U/G (Win)..... **$199**

Academic pricing available

Adobe Photoshop 4.0

A camera for your mind

Create original artwork, correct colour, retouch images and prepare professional quality separations and electronic output with more flexibility than ever before.

ADO030 Adobe Photoshop 4.0 ..... **$979**

ADO033 Adobe Photoshop 4.0 U/G **$299**

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5. EZ Language Version 1 — EZ Language V1 is the fun & easy vocabulary pronunciation tutor for 7 different languages
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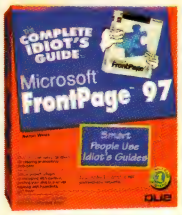

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Presents all the information you need to know in a language that's easy to understand!

Corel GALLERY Magic 200,000

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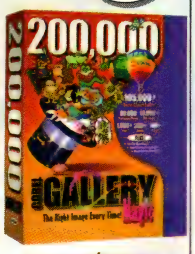
Make every project special with Corel GALLERY Magic 200,000, a collection of 200,000 images, including 105,000 clipart images, 80,000 photos and hundreds of fonts, animated .GIFs, sounds, video clips and theme sets for the Web. Packed with a full-colour clipart manual, powerful visual file manager and more, Corel GALLERY Magic makes it easy to stay organised. Search multiple libraries with the wizard-style search interface to find the image you need, then drag and drop it into most applications. Preview thumbnails and manipulate bitmap images using the Image Editor.



Features

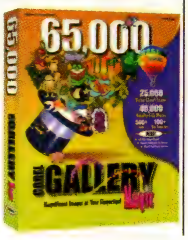
- Over 105,000 vector clipart images (includes 55,000 images new to this product plus 50,000 images from Corel MEGA-GALLERY
- 80,000 low-resolution Internet-ready, royalty-free professional photos
- 15,000 Web images, including theme sets and animated gifs
- Powerful multimedia file manager and the Corel Photo Browser Database

COR400 Corel GALLERY Magic 200,000 ..... **$115**

Corel GALLERY Magic 65,000

NEW PRODUCT

Offering 25,000 vector images, 40,000 photos, 500 fonts, 100 animated .GIFs and 100 theme sets for the Web, Corel GALLERY Magic 65,000 is an ideal choice for all your desktop, multimedia and Internet publishing needs. Enhance brochures, newsletters, presentations, school projects, videos, greeting cards, posters and more. Find images quickly and easily, and simply drag and drop them into your document. A state-of-the art multimedia file manager helps you manage projects efficiently by organising your files into convenient thumbnail albums. Use built-in mini-editors to edit your favourite clipart image or photo. Corel GALLERY Magic 65,000-magnificent images at your fingertips!



Features

- Over 25,000 clipart images
- 40,000 royalty-free professional photos
- Full-colour clipart manual - also show fonts (photo thumbnails not included)
- Over 500 True Type and Type 1 fonts
- 100 theme sets for the web
- 100 animated gifs

COR401 Corel GALLERY Magic 65,000 ..... **$49**

Corel Print House Magic, Version 3

NEW PRODUCT

Create dazzling greeting cards, banners, invitations, business cards, flyers and more in a flash. Use thousands of fully customisable samples or create your own designs with the assistance of wizards and advanced drawing tools. Touch up or alter your favourite photographs using Corel Photo House 2 and keep track of addresses and special events with Corel Family & Friends?. Let context-sensitive help make complex tasks, such as double-sided printing, a breeze. Browse through full screen previews of each project before selecting one-no more squinting at small thumbnail images. Corel Print House Magic-the all-in-one graphics package that lets you express yourself!

Corel Print House 3

- Thousands of fully customisable samples
- Fully editable graphics
- Text-merging capability for labels and mailings
- Advanced drawing tools-a subset of the tools found in CorelDRAW 7
- Extensive import/export capabilities
- Support for specialty papers such as PaperDirect
- Double-sided printing
- Multimedia introduction

Corel Family & Friends

- Calendar of shows, holidays, birthdays, anniversaries and user-defined events
- Reminders that ensure special events are not forgotten so cards can be sent out on time
- Simple and easy-to-use address book. Addresses can then be inserted into a Corel Print House 3 project for mass mailings
- Keeps track of CD collections, recipes, etc.
- Complete address book and list manager
- Ability to set reminders for upcoming holidays and special events

New to Print House Magic

- Expanded project capabilities including online greetings and photo projects
- Address book and daily event reminder
- Spell-as-you-go capability
- Context sensitive property bar
- Image Sprayer
- Symbol Sprayer
- Drag and drop Photographic objects and frames
- 25 New brush presets
- Photo House text tool
- Expandable special effects
- Support for pressure sensitive tablets

COR402 Corel Print House Magic, Version 3 ..... **$79**

Eureka's 115,000 Images

Perfect for Graphic Designers, Desktop Publishers and Web page designers.

NEW PRODUCT

A superior collection of images, fonts and sounds complied by graphic artists who were disappointed with what was currently available. The Special browser included enables rapid scanning of 24 objects at a time and a refreshing of these objects with a "mouse" click. Excellent value as the browser is itself worth the price of the package

An outstanding 6CD set containing the following;

- 36,000 fully scalable vector images
- 4,000 True Type fonts
- 2,000 EPS fonts
- 12,000 Icons
- 36,600 Photos
- 8,600 Animated Gifs
- 480 Backgrounds
- 1,300 Raytraced Images
- 10,000 Tif images
- 5,500 Music and Sound effects

U/G STOCK CODE: NOD002

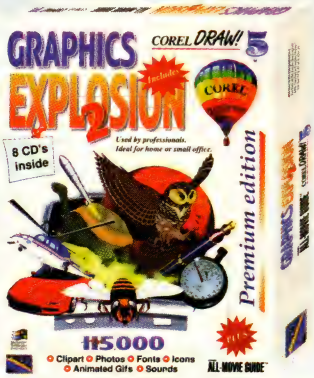
$59.95

Also available

NOD003 Eurekas 35,000 images with browser **$59.95**

Graphics Explosion

The absoulute best value software buy of the year !



One of the world's most powerful desktop publishers has been added to the Eureka's 115,000 Images to create the ultimate desktop publishing program. It also has the unique browser which has removed the need for a separate clip art catalogue. This value packed edition comes with 8 CD's.

Includes 8 CDs

Contains Eureka's 115,000 images plus Corel Draw5 and Corel All movie Guide

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- Corel MOSAIC™
- Corel PHOTOPAINT™
- CorelQUERY™
- CorelCHART™
- CorelDRAW™
- CorelSHOW™
- CorelMOVE™
- CorelTRACE

Corel Draw5 includes: Corel All-Movie guide which is a data base and reference guide for over 90,000 movies and videos.

NOD004 Graphics Explosion 2 – Premium Edition **$89.95**

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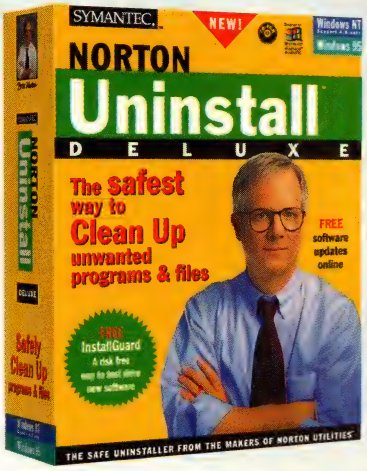
Norton Uninstall Deluxe

Norton Uninstall Deluxe for Windows 95/Windows NT 4.0



Norton Uninstall Deluxe is the safest way to make changes on any Windows 95 or Windows NT 4.0 system, including both removing and adding programs and files. Norton Uninstall Deluxe provides program, file and disk management tools that allow you to safely try new programs, recapture disk space and cleanup your hard drive(s).

Key Features of Norton Uninstall Deluxe for Windows 95/NT 4.0

InstallGuard — unique to Norton Uninstall Deluxe - enables you † to remove the last installation and return your system to its original state.† All files that were overwritten or changed will be replaced with the original files. This unique "undo" feature gives users a risk-free test drive for any new installation.

SafetyScan ensures accurate knowledge of your system and configuration for a safe and complete Remove, Move, Copy and Store of all applications and files — even those that were on the system before Norton Uninstall Deluxe.

System Monitor provides the ability to monitor installations so you can safely and thoroughly remove them with InstallGuard if you encounter any problems.

Folder Selection — unique to Norton Uninstall Deluxe - allows you to Remove, Move, Copy and Store by sub folders, not just application group, application or file. This makes it especially easy to remove suite components, or data files that are stored in a folder within an application group

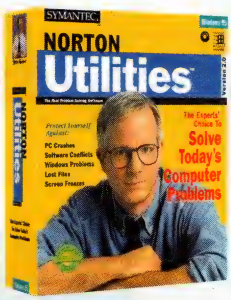
SYMANTEC. Designed for Microsoft Windows 95 Academic pricing available

NOR072 Norton Uninstall Deluxe **$55**

Norton Utilities

The experts choice

Over 15 Million Users World Wide.

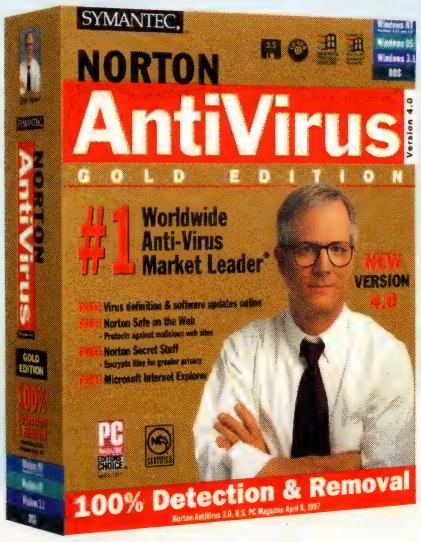


Right there, right when you need it
Norton fixes problems you wouldn't otherwise know were there until it's too late. The system Doctor monitors your whole system and automatically corrects problems before they affect you.

- Protects you against software conflicts, Windows problems lost files,PC crashes, screen Freezes and more
- Stops computer viruses before they damage your computer
- Monitors your favourite Web sites
- Automatically downloads software updates and patches

NOR032 Norton Utilities ..... **$109** SYMANTEC. Designed for Microsoft Windows 95 Academic pricing available PC MAGAZINE EDITORS' CHOICE

Norton AntiVurus Gold Edition



Worldwide Anti-Virus Market Leader*

Norton AntiVirus is the virus protection of choice for over 94% of Fortune 500 companies. Whenever you are on the Internet or sharing files via floppy diskor across a network, you run the risk of virus infection. Automatic real0-time protection monitors all potential sources of infection. Just load it and forget it. It's that easy.

SARC Asia Pacific

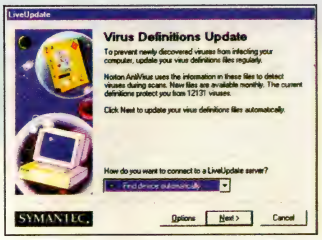
The Symantec AntiVirus Research Centre is teh industry's largest virus research lab with a team of dedicated technicians who work around the clock to identifya nd neutralise new viruses – inclluding the dast spreading Macro viruses.

LiveUpdate

Download current virus definitions free from the Symantec Web site with one click. Schedule future sessions to run automatically. LiveUpdate email also alerts you when new virus definitions are posted from SARC.

Support Service

Symantec's anti-virus products are products are backed by quality support service. Virus information and updates can be obtained by contacting your local Symantec FTP site, Website or BBS via Internet, America Online, Compuserve or Microsoft Network.



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100% Protection & Removal

NOR074 Norton AntiVirus Gold Edition **$89**

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TuneUp

It's like having a service station for your PC!

Fill up with the latest software updates. Clear out harmful viruses. And Keep your computer running like a finely-tuned engine... with TuneUp.

TuneUp ensures that your hardware and software are up-to-date and virus free. TuneUp's one -year service subscription* provides you with the most comprehensive online care around. And all it takes is a click of you mouse. You can't get a smoother ride than that.

Shift into high gear with the most current updates

VVROOM! TuneUp quickly and securely profiles your system's hardware and software, then immediately generates a list of the latest updates and bug fixes available on the Internet.

No wasting your valuable time calling Customer Support or searching for hours through online lists of program patches and updates. No worries about older versions getting installed over new ones. Just select the updates you want and TuneUp downloads and installs the right ones.

And since TuneUp supports over 3,000 products, you can bet you're covered from Access to Zork. Plus, our pit crew continuously scouts the Internet to stay on top of all the latest updates.

Don't let deadly viruses stall PC

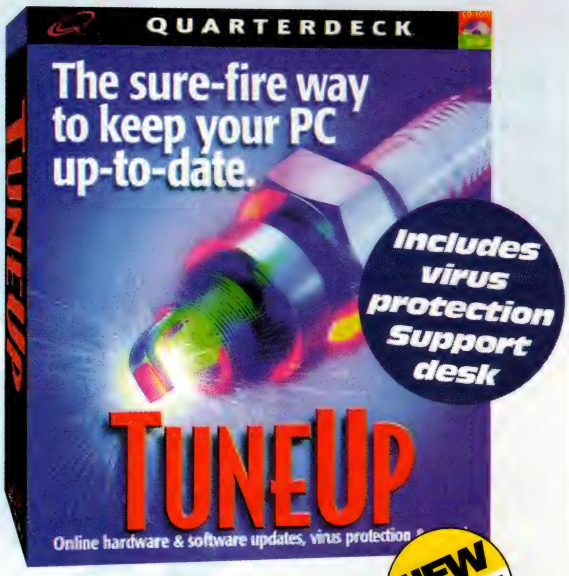
TuneUp AV (Anti-Virus) gives your PC high-octane protection against destructive viruses from floppies, e-mail and the Internet.

It detects and destroys thousands of viruses to keep your PC firing on all cylinders

Open 24 hours-a-day for online service

TuneUp is your direct route to Tuneup.com, Quarterdeck's award-winning, one-stop technical reference Web site. Tuneup.com is available anytime you run into an obstacle.

Get a full TuneUp Not just an Oil Change!	Oil Change V2.0	TuneUp V1.0
Application and hardware driver updates	X	X
Virus protection		X
Tuneup.com reference web site		X



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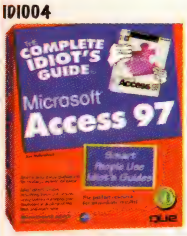
Designed for Microsoft Windows 95

QUA135 TuneUp Version 1.0 ... **$59.95**

Idiot's guide to MS Access 97!

IDI004



Only $24.95

Take away the pain of databases. This guide presents all the information and tricks you need to know!

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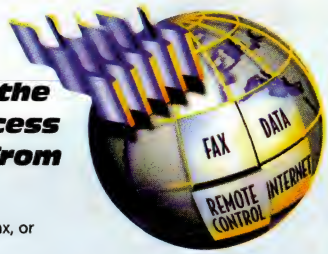
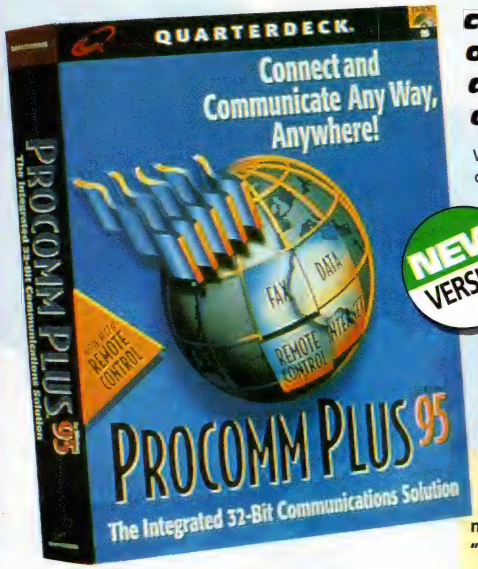
Procomm Plus 32

The world's No.1 best selling communications software is the only complete solution to access all your PC communications from one source.





NEW VERSION

Whether you're cruising the Internet, sending or receiving a fax, or downloading a file from the office, Procomm Plus 32 has everything you need to communicate via your PC. Fax, Internet and Data functions are seamlessly integrated into one intuitive interface. The quickest, most reliable way to get the most from being connected. Procomm Plus 32 allows you to work at your computer the way you want to, moving from one activity toy the next with ease. Procomm Plus 32 also boasts the new feature Procomm Remote which allows you to connect from anywhere to control your office or home PC files and applications as if you were sitting there. Remote control is also a great way to read and send e-mail, share applications and files between your laptop and desktop.

WHAT THE PRESS ARE SAYING

"...read all the review to appreciate the magnificence of the product"

"...easy to operate, a dream to install"

Micro Computer Mart

Features:

- Fax Manager
- Data Transfer
- Connection Directory
- Web Browser
- Internet Mail
- Internet News Reader
- FTP and Telnet
- ISDN Support
- Aspect Script Language

Designed for Microsoft Windows 95

QUARTERDECK

QUA136 Procomm Plus 32 (CD)..... **$259**

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IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

CleanSweep Deluxe
With Internet Sweep!

NEW PRODUCT

World's #1 choice for save hard drive clean up!

A hard drive can be a very filthy place. Especially if you surf the Internet. Every time you install a program, download a file, upgrade or perform even the most mundane disk operations, you computer dribbles a trail of digital debris - clogging up valuable had disk space. It's now time you called in the world's # 1 choice for safe file removal... CleanSweep Deluxe protests against unwanted files downloaded from the Internet, including viruses.

Powerful Internet protection and cleanup

When surfing the Internet, all kinds of debris get on you hard drive. And most of this digital junk you can't even see! Every time you browse the Web, your hard drive can get cluttered with text, graphics, sounds, video files and "Active X controls". Web "cookies" get invisibly placed on your hard drive when you visit certain sites. CleanSweep Deluxe allows you to safely clean these files, reclaiming valuable hard disk space.

Every day a wide range of software pours in from the Web, (trialware, shareware, betas, and browser plug-ins, etc). CleanSweep Deluxe can remove them safely and completely.

Award-winning cleaning power

Like the original version, CleanSweep Deluxe tidies up your hard drive by cleaning away that digital mess. It tracks down all kinds of disk junk - duplicated files, redundant DLLs, orphan files and infrequently used files - quickly and easily.

Just activate the automatic wizards to determine which files are clogging up your system, then sweep them all away automatically. Or confirm each action yourself. Best of all, CleanSweep Deluxe safely uninstalls both 16 and 32 bit programs.

Gets in hard to reach places

CleanSweep Deluxe effortlessly guides you through the toughest of file-management chores - understanding and editing the hidden registry that contains the secrets of Windows 95 and Windows NT. Then, the exclusive Registry Sweep sweeps away invalid registry entries, while freeing up disk space.

And with the Application Knowledge Base of over 1,000 programs, chances are if it's on your system, CleanSweep Deluxe knows the safest and most through way to get rid of it.

Cleans up Internet debris & Viruses! Remove any new application with 100% safety.

Won't damage your valuables

CleanSweep Deluxe's exclusive Safety Sweep feature offers the best protection against accidental file deletion of any removal utility you can buy.

CleanSweep Deluxe patrols your system all the time, recording the installation of new software. So you can now remove any new application with 100% safety.

Safety sweep "green lights" those files that are safe for you to remove

Which CleanSweep is right your you?

Features	CleanSweep 3.0	CleanSweep Deluxe
Uninstalls and archives applications completely	X	X
Cleans up orphaned, duplicated and unused files	X	X
Offers automatic safety features	X	X
Moves or copies programs to other folders, drives or computers	X	X
Updates itself automatically over the Internet	X	X
Cleans up unwanted files downloaded from the Web		X
Monitors and uninstalls Active X, plug-ins and other Internet programs		X
Includes bonus anti-virus software		X

Features

- Finds and safely removes more files than any other program
- Safety Sweep automatically protects against accidental deletion of important files
- Smart Sweep automatically watches installations for the most effective uninstalls
- Application knowledge base of over 1,000 programs for the safest removals
- Automatically finds wasted space for instant savings
- Intelligently eliminates unused and duplicate files
- Easily moves programs to any location

Update-it

CleanSweep can automatically update itself over the Internet, so you'll always have the most up-to-date application knowledge base

QUARTERDECK

WINDOWS

PC PRO RECOMMENDED

Designed for Microsoft Windows 95

QUA137 **CleanSweep Deluxe** **$79.95**

CLE011 **CleanSweep 3.0** **$55**

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The Revolutionary New Way to Get More Hard Drive Space

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Get 150% more space safely and easily

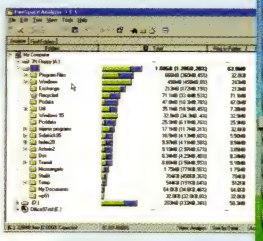
FreeSpace creates hundreds of megabytes of hard drive space by letting you selectively compress files, as well as optimise hard drive clusters. Through these two methods, you'll average 150% more free space for each file you compress! Theirs is no special partitions, no disk doubling, no compressed drives, no special file names and no big slowdowns in system performance. Simply choose the files or programs to FreeSpace, and they look and work exactly the same as before while taking up dramatically less disk space.

Hundreds of Megabytes at your Fingertips
With FreeSpace, you can selectively compress files directly from Windows Explorer or by using a variety of intelligent tools included with the product.
When FreeSpace compresses a file, it also optimises hard drive clusters, managing a major source of wasted space. Files that have been FreeSpaced work exactly as any regular file, with little noticeable slowdown in execution and loading. You don't have to modify Windows, or run any extra programs. And FreeSpace technology works for and kinds of file programs, graphic files, word processing files or databases.

Intelligent tools to help you get more space
With FreeSpace, you're not on your own. Simply use the FreeSpace Manager to hunt down space-hogging files. You'll get a list of the best possible candidates for compression.

Radically different to other compression products
Unlike disk-doublers, FreeSpace doesn't force you to compress an entire hard drive, it doesn't take up lots of memory, nor does it slow your system down. And, unlike the Zip file format, no specially named file is needed. FreeSpace is completely transparent. And best of all, you select the files you want to compress, without having to make any big commitment

Get more from your "clusters"
Every file must take up at least one cluster even if the file is tiny! So clusters almost always have wasted and unused space.
Some companies sell partition software, which partially solves the cluster problem but splits your hard drive up into too many new drives. With FreeSpace, your cluster space is automatically optimised when you compress a file, without having to go through any hassles or headaches!



If you run out of hard drive space, tell FreeSpace how much you need
You're installing a new program, but you can't finish because you don't have enough space, simply tell FreeSpace how much space you need, and you'll get what you need!

Integrated into the Windows Explorer
You can use FreeSpace to find files which are taking up space, or you can simply right-click any file or folder in Explorer, and compress it instantly.

SWS008 Freespace **$89**

HD Disks from Verbatim

VER001
Only $10.95

Each Verbatim diskette Individually Certified 100% error Free!

ZipMagic

The Next Generation Zip Program

ZipMagix includes the patent-pending ZipFolders technology, which safely and transparently turns zip files into Window folders. The contents of zip files you download, receive or create become instantly accessible, so you can view and modify files, run programs, archive files, all with spectacular ease - without having to unzip anything. And every file stays compressed in the zip file, saving precious disk space! ZipMagic fully supports the universal ZIP format, as well as other compressed files like ARJ, LHA/LZH, GZIP, TAR, TAZ, TGZ, CAB and ZOO. Opens all compressed files, even email attachments! You can also open and decode email attachments like BinHex, UUEncode, XXEncode and MIME. ZipMagic includes an Archive Manager. Only ZipMagic has the revolutionary Internet EasyUpdate, which seamlessly updates your copy of ZipMagic to the latest maintenance release.

STOCK CODE: ZIP016
$55

AUS132 Zip Folders **$39**

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Training for the Office or Home

ViaGrafix offers a complete range of interactive tutorials for beginners right through to advanced users. Just select the Interactive Tutorial that's right for you.

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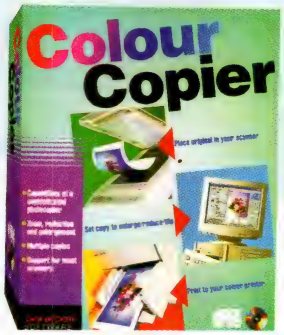
Colour Copier

Turn your scanner & printer into a colour photocopier.

Colour Copier turns your colour scanner and colour printer into a full-featured photocopier. Simply place your original in the scanner and set your copy Features! Large corporations have invested millions in developing the interface for both simple and complex photocopiers. Colour Copier emulates that interface, allowing everyone to produce both simple and complex copies, from the scanner to the printer.

Software comes with position presets or you can create your own. It's so easy!



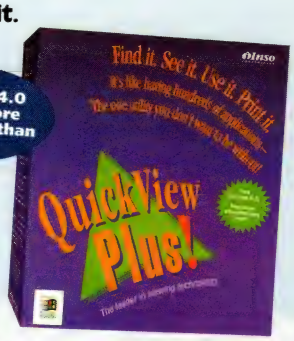
SWS001 Colour Copier **$95**

Quick View Plus

Find it. See it. Use it. Print it.

The Unbelievably Useful Utility for Windows 95/Windows NT
See, copy and print virtually any file - with all formatting intact - even if you have none of the originating applications!
Quick View Plus is the essential utility for every Windows user!
Not only does Quick View Plus seamlessly integrate into Windows Explorer and Microsoft Exchange, it also operates within Netscape Navigator as a plug-in and within Microsoft Internet Explorer as an ActiveX Document viewer.

New Version 4.0 Now More powerful than ever!



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INS015 Quick View Plus **$89**

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DISKEEPER 3.0

New technology improves Windows NT 4.0 performance!

NEW PRODUCT

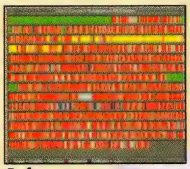
Contrary to popular belief, disk fragmentation is a serious performance issue in Windows NT Server and Workstation. Eliminating disk fragmentation eliminates the primary performance bottleneck that plagues even the best equipped systems providing disk speed improvements of up to 20%.

Diskeeper is guaranteed to eliminate fragmentation as a performance issue and its new directory defragmentation feature being a first making it the most comprehensive product of its kind on the market today.

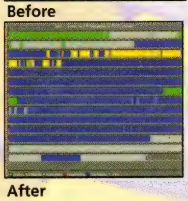
Fragmentation steadily increases the number of pieces in which your files are stored on the disk and it there for takes longer to read those files. Eventually fragmentation if not addressed will bring a system to its knees. One company found a single file broken into 358,000 separate fragments on their disk!

Designed for the corporate network as well as the home user, Diskeeper Server can remotely manage thousands of Windows NT workstations providing remote analysis and scheduling facilities.

Diskeeper will unleash the true power of your Windows NT systems!



Before



After

"Disk fragmentation can cause performance problems. You should consider running a defragmentation program on a regular basis"
- Microsoft Windows NT Server Resource Guide

"The most commonly used disk defragmentation program for Windows NT is Diskeeper from Executive Software"
- Running Microsoft Windows NT Server 4.0 - Microsoft Press

Features

NEW! Defragments and consolidates directories!

NEW! Group scheduling for single, hundreds or thousands of disks—with just a few mouse clicks!

NEW! Easy Analyse allows administrators to quickly look at any disk on the network for fragmentation. (Server version)

NEW! Full network controls can be run by an administrator from any Windows NT workstation. (Server version)

UNIQUE! The only "Set It And Forget It" Defragmenter

EXCLUSIVE! Remotely schedules, monitors and controls defragmentation across the network. (Server version) Automatically restores and maintains Windows NT system speed and performance. Defragments multiple disks automatically while system is in use. Time tested—completely safe with all types of disks. Easy to use, flexible scheduling options with five priority settings. Supports Intel x86, Digital Alpha and PowerPC platforms. Safe with EDI, SCSI, RAID, volume sets and mirror sets.

Designed for Microsoft BackOffice

BEST LAN TIMES 1996

PIX001	Single Workstation	$115
PIX002	Five Workstations	$495
PIX003	Ten Workstations	$795
	Call for network pricing	
PIX004	Single Server	$495
PIX005	Five Servers	$1,995
PIX006	Ten Servers	$3,495

Version 2.0 also available which also supports Windows NT 3.51

Vet AntiVirus

Automatic Virus Protection For All Platforms

Essential Protection

Virus protection has never been as essential as it is today. New viruses are continuing to appear at an ever-increasing rate and new types of viruses - for instance, Word macro viruses - regularly take the PC World by surprise.

The Internet, intranets, networks, Email, shared disks and shared PCs all enable viruses to spread.

Virus Protection for Your System

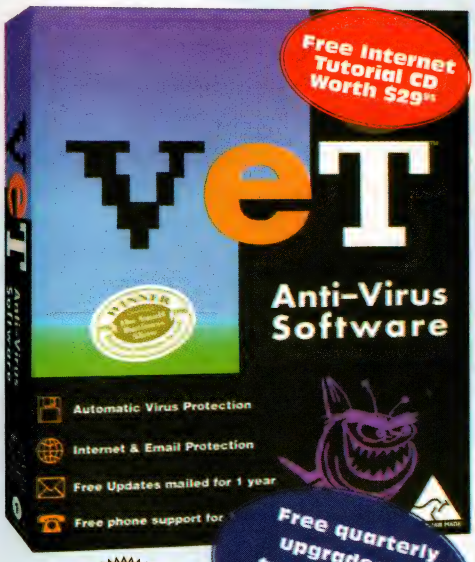
VET Anti-Virus Software provides you with the protection you need for your system, whether it is a stand-alone PC or a complex network of PCis in an organisation. (Server-based virus protection is also available - please ask for information.)

VET Workstation protection provides automatic virus protection and removal: it gives your PC a quick once-over each time it is switched on or rebooted; it checks all files as you try to access them, preventing you from using an infected file or disk; it provides automatic detection against thousands of viruses and is able to effectively clean files infected by all of the common viruses.

VET is a tried and tested product, used on hundreds of thousands of PCis in more then 30 countries. It is installed in many universities, government departments, corporate companies, small businesses and home users' PCs. VET is regularly evaluated by independent organisations and continues to rate in the top ten worldwide.

VET Workstation Protection

To make things easy, the VET Workstation box contains versions for Windows NT Workstation, Windows 95, Windows 3.x and DOS complete with manuals for each operating system. VET is more than a product - it is a service as well. All registered users receive free quarterly upgrades for the duration of their licence and free unlimited phone support for the same period.



WINNER VET Australian Business Software of the Year

FEATURES

- Automatic Virus Protection
- Total Macro Virus Solution
- Network Compatible
- Internet and Email Protection
- Update and Support Services
- An Essential Product

AUSTRALIAN MADE

STOCK CODE: VET001

$95

VET002	VET 2 User licence Pack	$159
VET003	VET 5 User licence Pack	$269

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8 Reasons why 1,000's of buyers choose Software Warehouse every month!

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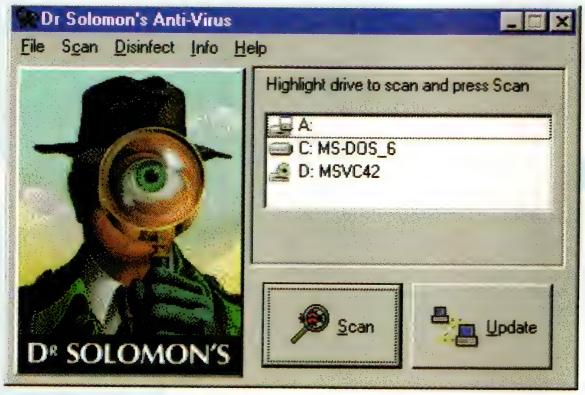
DR Solomon's Anti-Virus

Now the international best selling virus protection software is finally available in Australia and New Zealand. Dr Soloman's Anti-Virus detects and destroys the most viruses...automatically!



Exclusive Dr Solomon's WinGuard scanner and Dr Solomon's NetGuard technology provide 24 hour virus protection from internet downloads, shared files, e-mail, floppies, hard disks and more.

Dr Solomon's Anti-Virus is the only anti-virus product available in Australia that is able to automatically detect and eliminate the over 13,000+ known viruses that are out there, ready to attack your PC.

With over 3 million users worldwide. 24 hour, 7 day technical support and on-line upgrades for killing new viruses it's no wonder Dr Solomon's is trusted by over 3 million people worldwide.

It's the world's most advanced, trusted and widely used anti-virus program.

**Computer viruses are increasing at the rate of 300+ per month.*

Features

- Unique Technology – Dr Solomon's Anti-Virus employs Advanced Heuristic Analysis (AHA) and Advanced Macro Heuristic Analysis (AMHA) technology to reliably detect new and unknown viruses without creating false alarms.
- Compressed File Scanning – Dr Solomon's Anti-Virus has the ability to scan inside more compression file formats than any other anti-virus product, and scan recursively inside multiple nested layers of compressed and archived files.
- Online Updates – Dr Solomon's Anti-Virus' Automatic Protection Plan delivers a new product monthly with updated scanning technology and virus signatures to ensure comprehensive protection against the 300+ new viruses discovered every month.
- New Interface – a new intuitive interface makes Dr Solomon's Anti-Virus one of the easiest ways to protect users from computer virus attacks.
- Automatic Virus Removal with WinGuard – not only will WinGuard, Dr Solomon's on-access virus scanner, protect against virus attack 24 hours per day, but it can automatically remove any file or macro virus it detects.
- Educates with the Virus Encyclopedia. Gives detailed, in-depth descriptions of "In the Wild" viruses most commonly encountered by computer users.
- Money-Back Guarantee. Dr Solomon's Software is so confident that it offers better virus protection than Norton, McAfee, IBM, PC-cillin or VET, it stands behind its product with a money-back guarantee.
- FREE, unlimited 24-hour virus emergency support with one of its technical experts on the phone and by e-mail.

DR SOLOMON'S Anti-Virus VERSION 7

"Kills The Most Viruses... Automatically!"

GUARANTEED

Better virus protection than Norton, McAfee, IBM, PC-cillin, VET or your money back.

Marketing and Distribution by:

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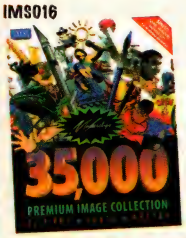
Internet address:
software@hotkey.com.au

NIT005 Dr Solomon's Anti-Virus **$89.95**

IMSI Masterclips 35,000

IMS016



Only $19.95

Spend over $50 & Buy Masterclips 35,000 (CD's Only) - For Only $19.95 a saving of $25!

For a limited time only.

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INTERNATIONAL SOFTWARE WAREHOUSE Pty. Ltd.

HOT UTILITIES

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

FULL-STRENGTH, 100% ANTI-VIRUS PROTECTION.

NEW PRODUCT

DETECTION OF VIRUSES IN COMPRESSED AND ARCHIVED FILES

SOURCE — Secure Computing, January 1997
Dr Solomon's is far more advanced in detecting viruses lurking within zipped and compressed files including Internet downloads covering the widest variety of file compression formats.

POLYMORPHIC VIRUSES

SOURCE — Virus Bulletin, October 1996
Polymorphic viruses are the most difficult to detect because each infection looks different. Dr Solomon's detects polymorphic viruses better than all the rest.

MACRO VIRUS DETECTION RATE

SOURCE — Secure Computing, January 1997
Macro viruses represent the newest threat to your computer today, and they're easily shared via documents and email. No other product detects and removes them like Dr Solomon's.

The Best INTERNET VIRUS PROTECTION

GUARANTEED

Better virus protection than Norton, McAfee, IBM, PC-cillin, VET or your money back.

If you want the best in anti-virus software, demand DR Solomon's Anti-Virus!

Marketing & Distribution by HOT KEY. Internet address: software@hotkey.com.au

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*Choose a Free CD with every order!**

*Full product as shown - OEM packaging. Packaging shown for display purposes only.

1. **MASTERCLIPS 1000** — A collection of professional colour clipart
2. **STARFISH INTERNET UTILITIES** — Manage your diary, contacts, meetings and communications via the Internet.
3. **BODYWORKS V3** — Learn all about the human body with multi-media guide.
4. **TURBOCAD V1 WINDOWS** — The most significant release of any CAD software this decade
5. **EZ LANGUAGE VERSION 1** — EZ Language V1 is the fun & easy vocabulary pronunciation tutor for 7 different languages
6. **LEONARDO THE INVENTOR** — A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

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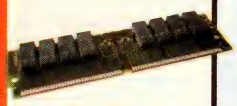


Call for Pricing!

Specific and Generic Lifetime-Warranted Memory for most types of Computers, Notebooks, Cameras and Laser Printers!

For a limited time only.

RamGate™ - The Ultimate Windows crash protection

STOP WINDOWS FROM CRASHING!!! WITH RAMGATE!

It's frustrating when your PC crashes and, at worst, loose a files entire contents through corruption. Major problems you can encounter in Windows are:

- Out of Memory
- Insufficient Memory
- Out of Resources
- General Protection Fault (GPF) - commonly known as a crash
- Illegal Operation (Win95 GPF)

WINNER RAMGATE Australian Business Software of the Year

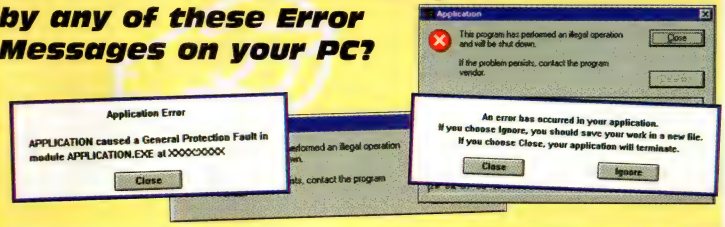
RamGate is a utility which stops Windows from crashing by controlling the way in which Windows applications access RAM, virtual memory and Windows system resources. The basic principle behind RamGate is simple; to use memory and resources contiguously. RamGate ensures that when an application makes a request for memory and resources, it is given a block immediately next to the previously allocated block. Additionally, a small buffer zone is built into the request for, and subsequent allocation of memory resources. This basic allocation method is in contrast to that of native Windows which will take memory and resources from anywhere. Continuous use of memory and resources will provide for a more efficient operation of Windows as well as improved stability. This is why you will be able to safely run more applications than ever before.

- Protect Against GPFs
- Improve Stability
- Prevent Loss of Data
- Windows 95 and 3.1x
- Australian Business Software of the Year

RamGate JUST LOAD IT

Designed for Microsoft Windows 95

Have You Ever Been Annoyed by any of these Error Messages on your PC?



AU5118 RamGate **$59.95**

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RESCUE

What would you do if you lost all your data... ...right now?

Data recovery for every Windows 95, Windows, and DOS user.

Rescue Data Recovery Software gives you added peace of mind and handles the greatest concerns of all PC users; drive crashes and data loss! Through its automated procedures and patented "smart" recovery technology, RESCUE helps you to recover one of your most precious possessions; your computer stored information, graphics and data.

Be Prepared...

When disaster strikes reach for RESCUE, the best selling data recovery software for Windows and DOS users. RESCUE is so simple to use. By just pressing a few keys, or with a click of a mouse, anyone can start recovering their own data in a matter of minutes. There's absolutely no technical expertise required!

Your Insurance Against Data Loss

Nothing can stop your hard drive from crashing when its time is due, but RESCUE, like an insurance policy, gives you the peace of mind and the security of knowing your data is safe and available when you need it.

RESCUE Gets Your Data Back, Fast

With RESCUE's patented recovery technology you'll automatically and safely bypass the crash to quickly retrieve your valuable data.

Prevent Lost Time, Lost Work

Instead of agonising for countless hours in front of your computer, let RESCUE do the work for you and recover all your Windows and DOS files including: word processing, spreadsheets, databases, graphics, games, deleted or erased files and even data from compressed drives.

Easy to use:

RESCUE is the most advanced, yet simplest to operate, data recovery software in the market today. It is the first true do-it-yourself data recovery software available.Unlike other recovery utilities that require advanced computer and software understanding, RESCUE operates independently and automatically, executing the recovery actions necessary to retrieve data from crashed hard drives and floppies.

STOCK CODE: NIT003

$119

What the press are saying

"In the past general failure messages left you few options. Norton, Central Point or Mace Utilities weren't likely to help.... Now there is a better solution ... RESCUE can recover data from all but the most thoroughly trashed disk... RESCUE works miracles... *Infoworld*

"RESCUE is a real life saver" *Mobile Office Magazine*

"RESCUE goes further and recovers data even if it is corrupted or if the disk is physically damaged by holes or scratches" *Personal Computer Magazine*

"If you're familiar with the message "error reading drive,Abort, Retry, Fail?" then you know that sinking feeling> RESCUE can now render that message meaningless!" *CFO Magazine*

NEW Features...

- Fully automatic data recovery for hard drives and floppies
- Works on compressed drives
- Works on deleted files
- Fast, easy, safe

All prices INCLUDE sales tax. Prices subject to change, see page 3 for terms & conditions.

For the cost of a local call **Orderline 1300 360 799**

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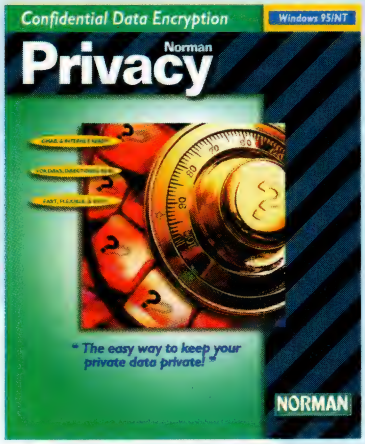


Your password is the key to privacy

Norman Privacy

NEW PRODUCT

Without Privacy, storing confidential data on your PC or notebook is like leaving your key in your front door. Anyone can get in and probably will. Privacy encrypts your data to make it unreadable without a password.

Install Privacy and you can protect a single word, everything in every folder, or anything between! Privacy is flexible enough to encrypt single or multiple words, files, folders or non-boot hard disks.

Easy to Use

To get some privacy on your PC, all you have to do is select the word, paragraph, file, folder or non-boot disk you want to encrypt and assign a password. That's it.

Once encrypted, only you or anyone you choose to give the password to can read the encrypted data.

What happens to an encrypted file!

Encrypted data is scrambled using a complex series of mathematical formulas, and it stays completely unreadable without the correct password.

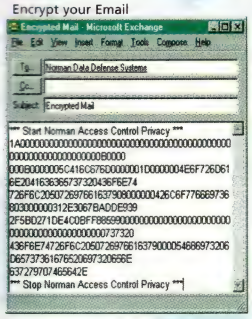
Any Application

Use Privacy to keep anything you can store on your PC private.

Easy to Install

With Privacy you can conveniently store encrypted data on hard, floppy and removable disk media, including PC cards.

Encrypt your Email



Do you have any of these on your PC?

- Internet and E-mail Access?
- Financials and Accounting Results?
- Important Customer Databases?
- Valuable Formulae or Operating Systems?
- Confidential Agreements?
- Confidential Presentations?
- Staff Salary Packages?
- Staff Performance Assessments?
- Bank Account Passwords or PINs?
- New Product Plans?
- Competitive Analysis Reports?
- Confidential Corresspondence?
- Ideas in Development Stage?
- Personal Secrets?
- Embarassing Facts or Information?

If so, you need Privacy.

NORMAN
Norman Data Defense Systems

NDD001 Norman Privacy **$75**

Norman Virus Control

An updated database of all known viruses is included with this package Offers Prevention, Not just Detection

Install Norman Virus Control (NVC) and you'll never have to worry about viruses lurking in your programs or stored documents again. NVC is so advanced, you can be sure your PC will be free of all kinds of viruses, including Macro viruses or those found on the Internet.

Detects & Removes all types of viruses

With the enormous growth of new Macro viruses together with Polymorphic scanners, a new approach to virus control was required. Enter Norman Virus Control, a revolutionary new way of attacking and elimination viruses. NVC integrates a number of different components to control all types of viruses like nothing else can. Here's how...

Patented Smart Behaviour Blocker

NVC utilises the very latest high-speed artificial intelligence to continuously examine the behaviour of any executed program. Should NBC detect any viruses, the program is disabled before it has a change to become resident and contaminated the rest of your system. With this amazing breakthrough, NVC virtually eliminates the need for time consuming and costly old style scans.

Heuristic Scanning & Generic Removal

Most virus control packages can only recognise viruses when the virus executes. But now with newly developed heuristic scanner technology, NVC can accurately recognise and remove a dormant virus without prior knowledge of it.

Cat's Claw Macro Virus Protection

Cat's Claw constantly monitors all documents that are likely to contain a Macro virus, including e-mail attachments, and automatically detects and removes any virus as the document is opened. With the current growth in macro viruses, Cat's Claw is and essential component in virus protection.

Fast, Accurate Scanner & Database

A database of all known viruses is included free with this package which means that NVC's high-speed scanner can quickly and accurately identify all known viruses to let you know exactly what you're dealing with.

Though virtually unnecessary with NVC, for extra reassurance you can also schedule automatic virus scans and customise search criteria.

Extremely Fast, Transparent Operations

Unlike other packages NVC virtually has no effect on operation times such as copying files or loading programs. NVC is so fast and so intelligent, most users won't notice it until it advises that it has detected and disabled a virus.

Rescue Disk

Included is the Rescue Disk which Scan and cleans an infected hard disk should all else fail.

Boot area Protector

NVC automatically scans the boot sector of a floppy disk when it is accessed. This prevents boot sector viruses from infecting your system.

Cross-Platform Downloads

Versions of NVC are available for single or networked users of DOS/Windows, Windows 95, Windows NT, OS/2 and Novell NetWare.

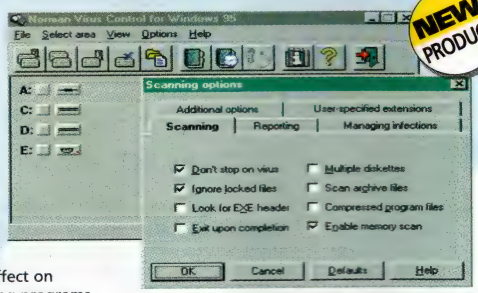
Scan Internet Downloads

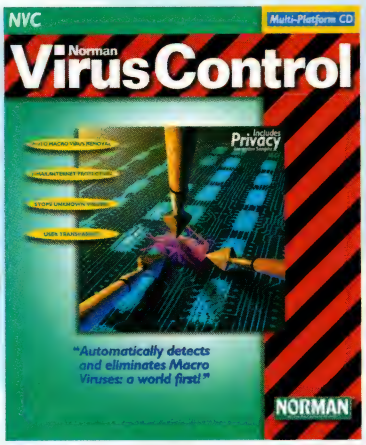
Your browser can be configured to automatically use NVC to scan an Internet download even if it is in compressed format.

ALL KNOWN VIRUSES

After testing the world's leading virus control packages against all known viruses, The Virus Bulletin of January 1997 reported: "One product stands alone... Norman Virus Control... the only one to score 100%.

NEW PRODUCT





NORMAN
Norman Data Defense Systems

NDD002 Norman Virus Control **$89**

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Free Delivery! — We do not charge for delivery on orders over $200, providing they weigh less than 1Kg. For other deliveries see chart on page 3.

Nationwide Delivery — We can deliver to any location in Australia, quickly. Whatever it takes, we deliver.

Massive Stocks — Our aim is to fulfil 95% of orders from stock. Our financial stability enables us to hold more than 10,000 items in stock at any one time.

All Welcome! — We always service the individual buyer, small business and large corporation to the same high standard.

No.1 Service — As an international company we have won more awards for products and services than any software mail-order company.

INTERNATIONAL SOFTWARE WAREHOUSE

IBM Anti-Virus

The Most Advanced Protection for an Infectious World

NEW VERSION

No matter how malicious a computer virus is, it doesn't stand a chance against IBM Antivirus. The Software identifies and quickly eradicates more than 10,000 viruses of every shape and form wherever they reside – in memory, on disk, in macro or in a file that someone just downloaded. It and can even recognise viruses that no one has ever seen before. All with unparalleled accuracy and thoroughness.

Designed for flexibility and ease-of-use, IBM AntiVirus offers a graphical interface, 'Install and forget' automatic operation, and free online support and telephone assistance.

the complete version of IBM AntiVirus for each supported operating system is included in this package, as well as a bootable Emergency Diskette to rescue you when a virus prevents your computer from starting

New in Version 3.0
- Office 97 protection
- Fastest virus scanning available
- Enhanced macro virus protection, including Office 97 macros
- International language support

Superior Reliability
- Virtual eliminates false alarms
- Full verification before disinfection
- Disinfects without damage to programs
- Transparent background operation

Comprehensive Protection
- Detects more than 10,000 viruses
- Certified by the NCSA to detect 1000% of the viruses known to be "in the wild"
- Runs on Windows 95, Windows NT OS/2*Warp, Windows and DOS

Most Advanced Protection
- System Shield lets critical applications run safely, even if infected, without spreading the infection
- Heuristic analysis to identify previously known viruses
- Neural network technology to identify unknown boot record viruses

STOCK CODE: IBM064

$79

Net.Medic

Your Remedy for Poor Online Performance

Take Control Over Your Corner of the Internet

Net.Medic is a browser companion - software that works with your Internet browser to monitor, isolate, diagnose, and correct problems that affect you while on the Internet. Now you can identify the source of your network bottleneck - PC, modems, your Internet Service Provider (ISP), the Internet backbone, or remote Web site server. Net.Medic identifies problems in split seconds, offers you recommendations for solving them, and in many cases, automatically fixes them for you.

Net.Medic is the personal Internet utility, giving you actionable information that can measurably improve your online performance. Before Net.Medic, you could only talk about your frustration. Now can do something about it.

Identify and Isolate Your Internet Bottlenecks

Net.Medic identifies performance problems and isolates them to a specific component of your unique Internet path - PC, modem, ISP, the Internet itself, or a remote Web site. Net.Medic animates your end-to-end connections, showing you exactly what is occurring across the Internet, including traffic jams and bottlenecks. Is the problem in the network or at a specific server? Is the network congested or the connection slow? Green, yellow and red indicators highlight the responsiveness of each component.

Once a problem is identified, Net.Medic provides you with critical vital signs about the health of the affected component, whether it's your PC, modem, ISP connection, Internet or Web server.

Monitor your Internet Vital Signs

By continuously monitoring activity along your end-to-end connection, Net.Medic tells you exactly what's happening at every critical juncture. Net.Medic reports your throughput, retrieval time, the Web server load and efficiency, as well as network delays and congestion levels.

Remedies Common Internet Ailments

Net.Medic is the only product that automatically eliminates common Internet performance problems before you even encounter them.

For example Net.Medic can detect a hung server condition before you know it exists. When this happens, Net.Medic automatically re-initiate your server request, eliminating long waiting times, manual re-tries, and time-out.

Contacts Appropriate Assistance

If a slow-down occurs at a point beyond your PC or modem, Net.Medic can automatically generate an e-mail message to the appropriate contact requesting assistance - including accurate documentation of the problems you've experienced - and will ask your for permission to send it.

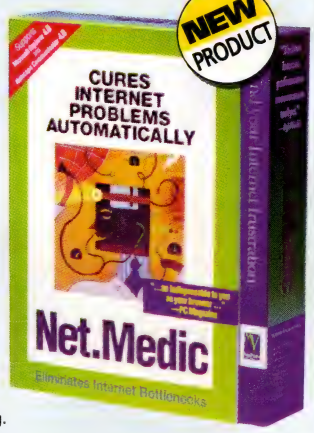
Check your ISP

Net.Medic monitors and reports on the level of service you are actually experiencing.

Optimise Your Environment

Net.Medic continually monitors your ISP connection and Internet conditions, dynamically adjusting your PC and modem configuration to optimise Internet performance.

www.vitalsigns.com



VT001 Net.Medic **$99**

VMail!

BAN012

Only $59.

Add Emotion and Personality- Attach a Video or Audio file to your e-mails!

For a limited time only.

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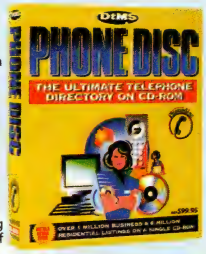
Australian PhoneDisc

NEW PRODUCT

The ultimate telephone directory on CD-ROM



Australian software that is smart, fast and easy to use containing over 1 million business and 6 million residential listings Australia wide on a single CD-ROM.
Searching is easy:
Just type in any of the following: Company Name, Surname, Initials, Suburb, State, Postcode, Line of Business, Area Code or Telephone Number and click the search icon.
Phonedisc will then display a summary of the matching entries from its database of 7.2 million records.
View and of the summary records in full detail. Print the record to your printer, copy it to the Windows Clipboard to paste into your other applications, or direct-dial the record using the Auto Dial feature and your modem.

Features:
- Intuitive lab style interface
- Search by Company name, Initials Surname, Suburb, state, Postcode, Area Code, line of business and Telephone Number
- Drop down selection lists are available for the Suburb, State and Line of business search fields.
- Full Boolean searching capabilities
- Print entries
- Copy entries to the Window Clipboard
- Dial entries (modem or auto-dialler required)
- Network and Multi-user versions available
- Ideal for looking up friends, relatives and locating businesses quickly
- Update twice yearly

DTM001 Australian Phonedisc **$89**

FaxPro

Cost Effective Direct Marketing

NEW PRODUCT

A database of over 300,000 Australian and New Zealand Business Fax Listings on a single CD-ROM
Searching
Fax Pro allows you to perform a variety of searches and gives you the ability to use sophisticated searching techniques such as wild card searches. Once you have performed your searches you can then display, print or export the results.
Exporting
You can easily export your search results to a disk file in comma delimited or fixed file format. Records exported to a disk file can then be imported into another application.
De-Duplication
Fax Pro's de-duplication facility flags or eliminates duplicate records by facsimile number.
Printing
You can print an entire set or the tagged records of a set in a single line report format. The single line report format prints the Company Name Address, Suburb, Postcode, Telephone Number and Facsimile Number details for each record.

Other Features:
- Ability to tag record • Ability to combine sets
- Ability to sort sets • Fax Pro is updated twice a year.

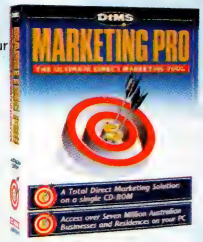
Fax Pro allows you to search and compile data by:
- Facsimile Number • Company Name
- Suburb • Industry Code • IDC & ANZSIC • Business Type
- Telephone Area Code • State (Australia)
- Locality (New Zealand)

DTM002 Fax Pro **$275**

Marketing Pro

The Ultimate direct Marketing Tools

NEW PRODUCT



A Total Direct marketing Solution on a single CD-ROM
Over Seven Million Australian Business and Residences at your fingertips
Marketing Pro allows you to search over 7 million national residential, business, into lists, prospect cards, mailing labels and telemarketing reports;
Compile data by: Business Type, City, Address, Phone number, Ad size ,Postcode, Industry Codes, State, Region, Employee Size, Mobile Phone Number, Directory,
Powerful Software
Marketing Pro utilises the leading edge Australian developed Pegasus Data Retrieval Software.
Peagasus is a powerful data retrieval engine with sophisticated compression techniques, perfect for large data bases like Marketing Pro.
User Friendly
Marketing Pro utilises interactive wizards to guide you through common tasks.

Features:
- Query by Example searching..
- Full search Refinement: - Simple to use, and very powerful.
- Contemporary easy to use, User Interface.
- Easy label and Report Printing.
- Sophisticated Report Printing: Create your own reports.
- Fast Deduplication Facility: -Eliminates duplicate records.
- Auto-Dial Facility: - Use Marketing Pro for telemarketing.

DTM003	Marketing Pro Melbourne	$495
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Manage your diary, contacts, meetings and communications via the Internet.
3. Bodyworks V3

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5. EZ Language Version 1

EZ Language V1 is the fun & easy vocabulary pronunciation tutor for 7 different languages
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Partition Magic V 3.0

Reclaim up to 40% of your hard disk & organise your hard drive!

Reclaim Wasted Disk Space

Everyone wants to get the most they can out of their hard disk. But, up to 40 percent of your hard disk may be totally wasted due to inefficient storage methods. PartitionMagic 3.0 increases your usable disk space by shrinking large FAT partitions and restructuring cluster sizes to reclaim up to hundreds of megabytes of lost disk space.

Safely Run Multiple OS's

PartitionMagic 3.0 makes it easy to run multiple operating systems on the same machine without compatibility problems. Explore the new world of Windows 95 or NT while still relying on the security of your current operating system. And PartitionMagic 3.0 includes Boot Manager from IBM, making it easy to select an operating system every time you boot your computer.

Organise and Protect Data

Create a physically separate partition for your valuable data files to protect them from potentially unstable applications. This simplifies backups, especially to devices like ZIP™ drives. And with the transport feature of Uninstaller™, PartitionMagic 3.0 lets you easily move applications from one partition to another with their files and operating system settings in place.

POW022 PartitionMagic 3.0 ..... **$109**

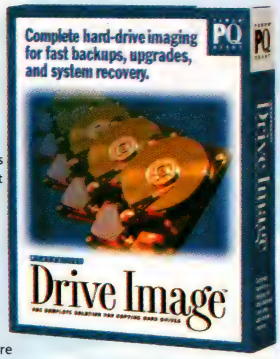
AUS228 PartitionMagic 3.0 Upgrade **$59**

Drive Image

No more risks or hassles, Quick back-ups,and complete system recovery. Fast and easy upgrades

Drive Image is the complete hard-drive imaging solution for hard-drive back-ups, upgrades, and data recovery.

Drive Image lets you easily create a compressed image of file of an individual partition or an entire hard drive. This file can be stored on a network, JAZ, ZIP, CD-ROM, or tape drive an then downloaded to make quick work of backups, disaster recovery, or upgrading to a new, larger capacity hard drive. With Drive Image, image files can be downloaded to drives of the same size or resized to fit drives for a different size and geometry for maximum flexibility.



Drive Images is the fast and easy way to backup recover, or upgrade your hard drive. Using patent-pending SmartSector technology (which copies only used sectors), you can quickly create and store a compressed image file of an entire hard drive, or individual partitions of a hard drive, on a network or other storage devices. Full system recovers is as easy as downloading the image file from storage. If you are upgrading to a new hard drive, the contents of your hard drive can be automatically copied and proportionately resized, saving you hours of re-installation time.

Features:
- Copy the entire contents of one drive to another
- Copy individual partitions or entire drives
- Create and restore hard-drive image files
- Create and store hard-drive image files for backup, upgrades and system recovery
- Change partition size when copying from source to destination

CHK003 Drive Image **$99**

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Oil Change

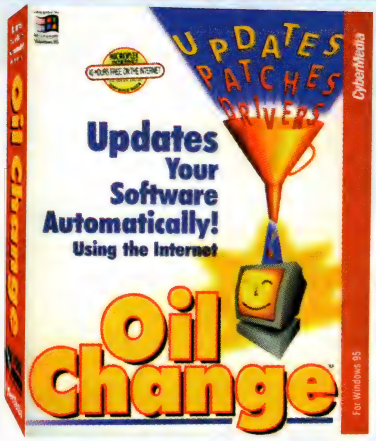
Update Your Software AUTOMATICALLY Over The Internet!

New software updates and hardware drives are being released on the Internet every day, designed to fix bugs, improve performance and add great new features to your PC. And most of them are FREE!
You can keep your PC running smoothly if only you could get these updates, but how do you make sure you have installed the updates properly?
No More hours of looking and searching the huge mass of information that is the internet in the hope of finding upgrades to the software you allready own and have installed on your PC - CyberMedia's Oil Change will first identify the software that you have installed on your PC, then log onto the internet in order to check with the CyberMedia Internet master list of new updates and drivers that are currently available an the Internet and then give you a helpful description of each update so you'll be able to make an informed choice. Next Oil change allows you the option of then choosing to upgrade that particular software or move onto the next upgrade or driver that is available. If choosen Oil Change autokmatically and safely installs the new software. Even after you have downloaded the software you still have the opertunity of reverting to the previous software that you were using because Oil Change saves a version of your present software before installing new software - One click is all you have to do and your computer's original setup is restored! It's that easy and that safe!

- Locates new updates, patches and drivers for your PC on the intenet.
- Downloads and installs the updates you select.
- Get new plug ins for your browser.
- Tunes up your software for peak performance.
- Keeps your PC up-to-date.
- Gets you the latest and greatest enhancements for your software.

How does it work?

1. Just click on start and Oil Change identifies all the installed software applications and hardware drives on your PC
2. Oil Change then checks with CyberMedia's master list of new updates and drivers that are currently available on the Internet and gives you helpful description of each update so you'll Know what benefit each update will provide
3. A helpful description allows you to select only the updates you want. Oil Change downloads and safely installs your new software automatically



Here"s what Top PC mechanics are saying:
"Could be the most significant program to hit your hard disk in many a moon"
– Netguide
"The most advanced on-line tune up"
– CNET Television
"Consider it your own personal upgrade assistant and system maintainer"
– PC Magazine
"Oil Change ensures your computer is running the newest software... it doesn't't get any easier than that."
– Time Magazine
"(with this) digital oil change.... you have not just software but living software."
– Time Magazine

RMG210 Oil Change **$65**

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KIS018

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Fix Internet Connection And Modem Problems NOW!

For a limited time only.

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IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

First Aid 98

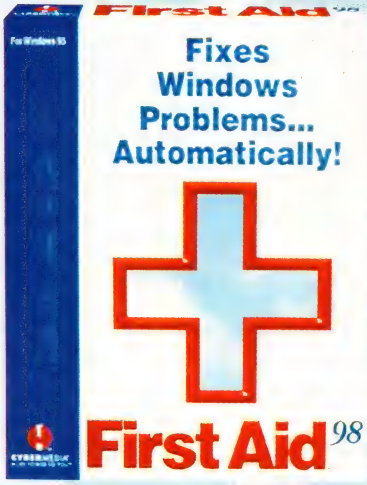
NEW VERSION

First Aid fixes more Windows problems more automatically than any other software.

First Aid 98's advanced database of solutions recognises problems like software conflicts, buggy components, and configuration issues and offers users an easy, one-click solution. it continuously protects against hard disk failure, crashes, software lockups and more. It can even reactivate your PC when your software stops responding! In addition, First Aid will examine your entire PC Internet setup (modem, browser connection) and reassemble portions that are broken. When users experience a problem that First Aid does not know about yet, they can send an ActiveHelp Support E-mail. Included in the E-mail is the PC's system information, everything First Aid did to fix the problem, and a description of the problem in the user's own words.

What New for 98

Refined User Interface! First Aid's new interface is easier to use than before. Users can give their PC a complete "Check-Up" or zero-in on a single PC component.
Smarter, More Automatic Fixes! First Aid 98 fixes tens of thousands of Windows problems with a single mouse click. First Aid's expanded database of solutions allows it to stay on the job until the problem is solved.
Emergency Recovery System! PC won't start up correctly? First Aid's new, emergency recovery system now rebuilds Windows. Using its extensive Knowledge Base, First aid will check every critical component of Windows to make sure all files are working properly. When a problem is encountered, First Aid fixes it by either readjusting your system or reinstalling missing or damaged files.
Finds and Replaces Damaged Files! Plagued by damaged files? First Aid checks to see if actual program files (VXDs, DLLs, 386s etc.) are damaged and replaces the damaged files with their originals (which First Aid reinstalls from the CD)
Fixes All Aspects of Your Web Connection! Having trouble with your Web connections? First Aid examines your entire PC Internet setup from modem, to browser, to Internet Service Provider (including plug-ins) and reassembles any portion that is broken. It updates or reinstalls files as needed, and makes sure you are connected for optimum performance.
Conflict Resolution! Ever wonder why your PC is misbehaving? First Aid will scan your entire PC to see if conflicts caused by buggy software, out-of-sync technical standards or incorrect registry setting are the culprit. First Aid will correct the problem by updating the troublesome component or driver.



Here's What First Aid Will Do For You

- Warn you in advance of hard drive failures
- Correct tens of thousands of known problems and help keep your PC conflict free
- Take the risk and hassle out of adding new programs and multimedia cards
- Search the Internet to find the latest solutions
- Act as your personal, 24 hour technical support expert

Fixes Window Problems Automatically!

What the press are saying:

It's Easy to Use!
"You do not have to be a techie to run this program" - *PC Computing*

It's Complete
"The aisles are loaded with utility programs..First Aid's advantage is that it's a friendly package that will prevent and mitigate most common disasters without demanding much from users in return" - *The Washington Post*

It's Essential
"First Aid from CyberMedia can be a big help... an assortment of tools that makes running Windows easier" - *Business Week*

Designed for Microsoft Windows 95

First Aid 98
STOCK CODE: RMG211
$65

New UnInstaller 4.5 for Windows

Safer, faster, better!

WIN.95 ONLY
STOCK CODE: UNI008
$65

UnInstaller 4.5 is the only completely safe way to delete applications and files from your Windows PC. It is the world's top-selling Windows clean-up utility and new Version 4.5 is faster, safer and crammed full with great new features that will make UnInstaller your essential personal PC housekeeper.

No matter how large your hard disk is, it's never large enough. Applications, Internet downloads, graphics and multi-media games fill up a hard disk in no time. When you need more space, clearing off the old, unneeded stuff can be risky. With many applications using hidden and shared files, it's difficult and dangerous to delete files by hand. UnInstaller is the safest way to remove files and applications - *even the things that were on your hard drive before your installed UnInstaller!* Its exclusive SmartLinks technology scans your entire system and identifies all the relationships between programs and files so that UnInstaller can then decide which files are safe to remove and which ones you need. It will never remove an essential Windows system file! With Automatic Backup you have an extra safety net in case you delete something you wanted to keep. With over 1 million users, nothing is safer than UnInstaller.

LOOK! - Hot New Features...

- **Quick Cleanup** - Tell the Quick Cleanup wizard how much space you need. It searches your system and automatically deletes files that can be safely removed - like temp files and Internet cache files.
- **Application Cleanup** - Delete an unneeded application and its related files, Archive an application to another place on your computer with all its related files intact, or Transport an application to a different computer without the need for reinstallation.
- **File Cleanup** - Find all those unnecessary files that accumulate on your system every day. Regular cleanup makes the most of your disk space.
- **Built-in Viewer Pane** - See the contents of files before you delete them without launching any other applications.
- **Graphical Reports** - Display or printed detailed reports to see how your system has changed.
- **Automatic Installation Monitor** - Automatically starts the the Installation Monitor when an application is installed.

WHAT THE PRESS ARE SAYING

"This software will pay for itself over and over again."– *PC Direct*
"The most well endowed of these utilities by some distance."– *Windows User*
"Head and shoulders above most other similar products on the market."– *PC Direct*
"Of the three programmes tested, only UnInstaller 3 did not offer to remove any critical Windows files." – *PC Magazine*

Editor's Home Office Pick · PC Magazine Technical Innovation Award 1995 · PC Computing MVP Finalist · Designed for Microsoft Windows 95 · PC Magazine Editors' Choice

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EVERYTHING FOR YOUR PC - DELIVERED NATIONWIDE!

Everything you need to fix up, clean up, speed up and tune up your system.

NEW PRODUCT

NUTS & BOLTS is a package or brilliant, virtually automatic utilities that PREVENT crashes, OPTIMISE your hard drive, ELIMINATE conflicts, REPAIR damage, SECURE files, SHRED sensitive stuff, ALERT you to problems, RESCUE lost files, DIAGNOSES your system, INCREASE speed, FIX glitches and CHECK program compatibility.

Best New Product of '97

FIX UP

Avoid crash-causing application conflicts. Prevents a single crashed application from taking down your entire system. Recover lost files, Fix damaged files, repair shortcuts, directories, and registry and system settings. Boot up after the worst disasters with your own Nuts & Bolts rescue disk.

TUNE UP

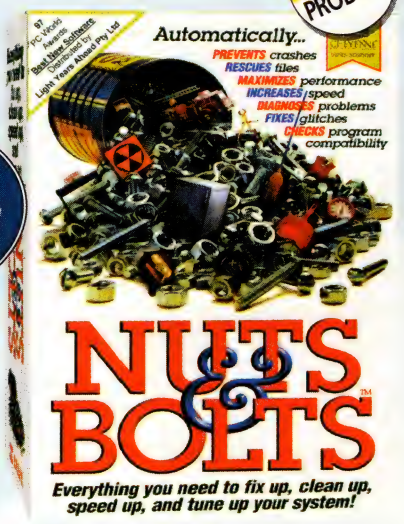
Test all your hardware with the push of a button. Optimise and customise your windows effortlessly. Tune your hard drive and Registry for conflict free installation of applications. And keep an eye on your memory and critical system resources to prevent problems before they occur.

CLEAN UP

Dump all those old, unused, duplicate or orphaned files that are cluttering your memory. Delete leftover shortcuts and program groups. Enjoy a lean and mean registry by eliminating useless tips and colour schemes.

SPEED UP

Defragment your hard drive and organise it so that the programs you use most are the front of your hard drive for quick access. Launch your favourite programs with one-click anytime! Optimise and defragment your registry for a faster boot-up.



Nuts and Bolts Repairs and Recovers

Disk Minder - Lost and damaged hard disks are history. NUTS & BOLTS Disk Minder helps you recover from the worst disaster by repairing and recovering damaged hard disks. Plus it finds and fixes many problems - damaged boot sectors and partition tables - that scan Disk can't.

Rescue Disk - You'll never get totalled again with NUTS & BOLTS Rescue Disk you can build a separate single floppy which allows you to access and recover your system even after it's crashed.

Image Restoring - Accidentally format?

Nuts & Bolts Cleans and Optimises

Disk Tune- NUTS & BOLTS Disk Tune reorganises your entire drive for peak performance. How? By defragmenting your files and pulling the ones you use most at the beginning of the hard disk (so you can access them faster). It does all this about 1000% (that's right, 10 time) faster than Windows Defrag.

Registry Wizard - Instant therapy for application conflicts. Every time you add or delete hardware of software you wreak havoc with your registry. NUTS & BOLTS Registry Wizard means automated housekeeping - cleaning, repairing, optimising and fixing the registry for maximum performance.

Cleanup - NUTS & BOLTS Cleanup collects the rubbish left behind by deleted programs and gets rid of it for your. Cleanup can even zip the files you just in case you need them.

Nets & Bolts Secures and Manages

Ez Setup - NUTS & BOLTS EZ setup lets you configure Windows (rename your compute, change icons, Windows logo etc.) to suite your needs and/or taste without having to delve into the Registry.

Stronghold - Keep those prying eyes out of your files. NUTS & BOLTS Stronghold ensures that your secrets remain secret. Encrypted files turn plain English into a sophisticated cipher, which is totally secure. Stronghold also allows you to create self de-crypting files, which you can e-mail to others who don't have Stronghold.

Shredder - NUTS & BOLTS Shredder doesn't just shred, it obliterates. Unlike other shredders, it leaves no trace of deleted files that can resurface later to embarrass you.

Zip Manager - Access your applications with a single click from your choice of a pull down menu.

Protects

Includes full copy of Cheyenne anti-Virus software, including real-time scanning and removal, scheduled scans and updates via the Internet.

Bomb Shelter - A safe haven for your system NUTS & BOLTS Bomb Shelter saves your data by letting you save crashed or hung programs. But unlike others, Bomb Shelter doesn't stop there. It protects Windows from misbehaving programs, so that a crashing program won't crash your entire system.

WinGuage - Know what's happening before disaster strikes. NUTS & BOLTS WinGuage uses a series of user-friendly gauges to display the status of your system in real time, and warns you of potential problems before they occur.

Trash Guard pro - Yikes! You just deleted that really important file NUTS & BOLTS Trash Guard prevents such accidents and allows you to recover deleted files even from DOS and 16-bit Windows Programs.

Discover Pro - Puts hardware and software configuration at your fingertips. Discover Pro is the only program which tells you how much RAM you open programs are using.

HELIX SOFTWARE CO.

Nuts & Bolts out classes the competition!

	NUTS & BOLTS	Symantec Norton Utilities	First Aid 97
Easy to use Central Interface	YES	NO	
Repairs & Recovers Damaged Files & Hard Drives	YES	YES	NO
Automated Clean & Repair Windows Registry	YES	MINIMAL	
Rebuild & Optimise Registry for Maximum Performance	YES	NO	NO
Optimise hard Drive (N&B Disk Tune is up to 5x Faster)	YES	YES	
Cleanup Hard Drive	YES	YES	
Provides Detailed System Info	YES	YES	
Protects Against Accidental File Delete	YES	YES	
Emergency Rescue & Recovery	YES	YES	NO
Hardware Diagnostics	YES	DOS ONLY	MINIMAL
Live System Monitor	YES	YES	NO
Crash Recovery	YES	NO	
Crash protection	YES	NO	NO
Easy System Configuration	YES	YES	NO
Zip/UnZip Files	YES	NO	NO
Drag & Drop Zipping	YES	NO	NO
Zip Integrated with Files & Hard Drive Cleanup	YES	NO	NO
Encrypt / Decrypt Files	YES	NO	NO
High security Encryption	YES	NO	NO
Security Integrated with File Compression	YES	NO	NO
Secure Erase Feature	YES	NO	NO
Secure Erase works with Compressed Drives	YES	NO	NO
Self De-crypting Files for easy E-mailing	YES	NO	NO

Designed for Microsoft Windows 95

PC WORLD 97 AWARDS

STOCK CODE: HEL001

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What the Press are Saying

"A complete utility program that knocks Norton Utilities 95 off its feet" - Windows Sources, ZDNet.

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VEHICLE	SIZE	TIME
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E-mail	5.0 Mb	25 minutes**
Courier Service	1 package	2-3 hours***
FedEx	1 package	24 hours****

* 9600 bps transmission speed (typically compresses to than 100kb)
** 28.8 bps transfer rate
*** Quoted courier delivery rate
**** Standard FedEx rate

NOW YOU CAN SEND AND RECEIVE COLOUR FAXES FROM YOUR PC WITH THE WORLD'S FIRST COLOUR FAX SOFTWARE.

Now you can fax in colour! With ChromaFax software PC users can send and receive faxes in full colour. You can fax scanned photos, ads, brochures, in fact any colour document on your PC.

ChromaFax receiver software is included with ChromaFax and is available as a free download from www.compressent.com. So any-one with a Windows '95 PC and a modem can receive and view colour faxes, turning your colour printer into a colour fax machine.

ChromaFax supports the recognised international fax standards, so if the fax destination does not have ChromaFax receiver software, the fax is automatically converted to black & white.

ChromaFax image compression makes it quicker and more reliable than e-mail, it is also faster and cheaper than using courier or overnight delivery services.

Colour faxing can be even quicker than black & white

In testing, using a Pentium 133 with 32 MB of RAM, ChromaFax faxed a 28-page document incorporating a number of colour images in 19 minutes, 46 seconds, while WinFax (faxed the same document in black & white in 20 minutes, 52 seconds.

ChromaFax is also a great black & white fax program so it's the only fax program you'll ever need. You can choose from ready made cover-pages or create your own, import address books, drag and drop multiple files into a single fax, annotate your faxes with sticky notes and highlights, and much more.

ChromaFax from Hot Key. Now there is finally a fax program as up to date as your computer.

Marketing and Distribution by:
HOT KEY
SPECIALIST I.T. DISTRIBUTION ASIA PACIFIC

NIT010 Chromafax **$115**

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For Windows NT Single Server/Enterprise Edition

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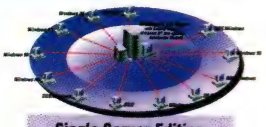
Powerful new Seagate Backup Exec for Windows NT sets the standard for enterprise storage management

New scalable storage solution architecture provides Intelligent disaster Recovery Options and Advanced Devices and Media management

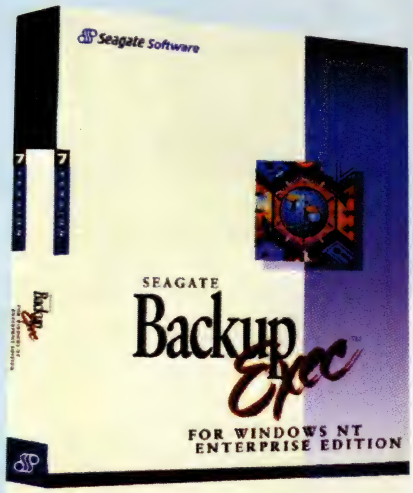
Seagate Backup Exec for Windows NT is the system of choice for high performance, reliable Windows NT data protection - and the most comprehensive solution for 100%BackOfece compatibility.

As the first backup solution designed for Windows NT, Backup Exec incorporates the Windows NT API's for superior 32-bit performance and ease-of-use. Seagate Backup Exec Intelligent disaster Recovery option provides the only "point-in-time recovery capability for quick, dependable recovery of services. Now in its fifth-generation, Seagate Backup Exec puts you in complete control with 24-hour network-wide scheduling, administration, monitoring, device and media management. And, Seagate Backup Exec offers pre-defined report writing capabilities with integrated Crystal Reports - for details when you need them.



Single Server Edition
Single Server Edition provides network-wide protection for a single server and unlimited client workstations.

Should you ever need to restore data from backup media created with Microsoft's Windows NT or Exchange Server backup utility, Backup Exec is 100% Microsoft Tape Format (MTF) compatible for effortless recovery. As the developer of the Microsoft Exchange Server and Windows NT backup utility, Backup Exec is the ideal solution for all your data protection needs.



- Intelligent Disaster Recovery - Minimize recovery time with the only point-in-time rapid-recovery system for fast, dependable Windows NT server and Workstation recovery.
- 100% Microsoft compatibility - Proven reliability and 100% data interchange with the Windows NT Backup utility.
- Performance Optimisation. Maximise performance, minimise network traffic. Backup time using exclusive Agent Accelerator technology distributed processing/sources compression.
- Integrated Crystal Reports - Provides details at a glance with User-Defend and Pre-Defend reports for network-wide administration, monitoring and management.
- Advanced device and media management - Maximises backup performance with drive pooling, dynamic load balancing, drive cascading, fault-tolerant processing and media overwrite protection.

Single Server
STOCK CODE: SEA110

$775

Designed for Microsoft BackOffice

Microsoft SOLUTION PROVIDER

SEA091	Backup Exec 95 V2	$129
SEA086	Backup Exec NT VS	$349

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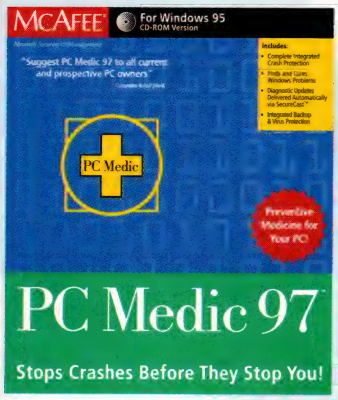
PC Medic 97

Stops Crashes- Before They Stop You!



Protect against software crashes

Have you ever lost work to a system crash? You've spent an hour or two between saves and your work disappears, to be replaced by an obscure message like Stack Overflow? If you work with WIndows 95 based applications, it's bound to happen. PC Medic 97 provides a GPF stopping alternative which saves your work. It recovers from 16 and 32-bit system crashes and allows you to gracefully exit your application without rebooting. You can define threshold levels so Crash Monitor can alert you before critical hard drive problems occur.

Finds and fixes Windows problems immediately

Have you ever installed software only to find that things that worked yesterday don't anymore? Now there's a tool which can resolve these problems - without hour long technical support phone bills!

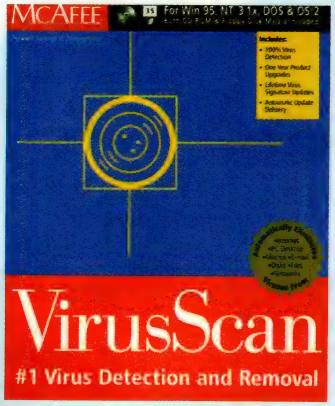
- Stays Up-To-Date with FREE automatic Internet upgrades
- Optimises WIndows performance
- Provides expert advice on thousands of problems - 24 hours a day
- Automatic backup - Fast restore

MCA039 PC Medic 97 ..... **$69**

McAfee Viruscan

MCAFEE Network Security & Management

No.1 In Virus Detection & Removal!



Every month, over 200 new viruses damage data and productivity. These viruses are unintentionally received through disks, bulletin boards, on-line services, e-mail, the Internet and organisational networks. Why have millions chosen McAfee VirusScan for their security? Superior virus detection, removal and support services. VirusScan natively supports a variety of desktops with features to keep your system immune from these viruses.

VirusScan scans all system areas to provide extensive security including local and network drives, CD-ROMs, floppies, boot sectors, file allocation and partition tables, folders, files and compression files. It accurately cleans most virus infections from files, master boot sectors, partition tables and memory.

Features

- One year free upgrades
- 100% Virus protection with Hunter technology
- Convienient to use!
- Security with service and support
- #1 Worldwide anti-virus Market share

MCA034 VirusScan 3.0/95/NT - CD **$69**

All prices INCLUDE sales tax. Prices subject to change, see page 3 for terms & conditions.

For the cost of a local call **Orderline 1300 360 799**

Sales Lines Open 9am til 6pm Monday to Friday and 10am til 3pm Saturday.

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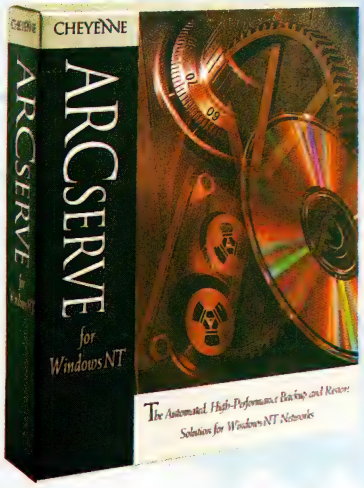
IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

CHEYENNE ARCserve 6



ARCserve 6 delivers unsurpassed data integrity by combining award-winning features of the ARCserve product line, with the industry's most advanced data recovery technology. Large and small business alike can benefit from ARCserve's superb ability to seamlessly manage data faster and easier than ever. With record-breaking processing speeds, ARCserve 6 can reduce your backup widow dramatically. Have security knowing that the data on your heterogeneous environment is protected.

ARCserve 6 supports not only DOS, OS/2 and Windows workstation, but also has optional modules for UNIX, Macintosh, Windows NT, Windows 95 workstation and your on-line databases.

Ease of Use: - With its improved Windows 95-like interface and the new Job Status Wizard, ARCserve makes backing up your data easier than ever.

Manageability:- Centralized job management and status viewing allows administrators to quickly access necessary information and to efficiently manage all backup and restore operations.

Integration:- ARCserve 6 is fully NDS-compliant and NetWare certified, making is a completely integrated NetWare 4.x application. With just one log-in and one view, administrators have access to all servers and resources on the network. ARCserve 6 allows you to browse NDS trees and choose entire containers or individual objects for backup and restore.

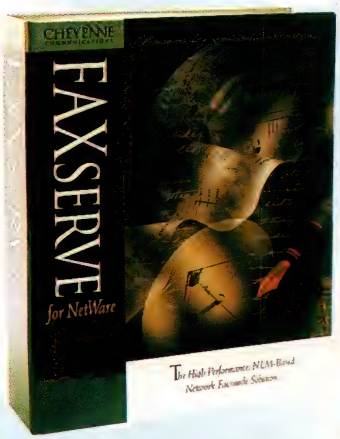
Performance:- Add the benefits of distributed processing your backup/restore scheme with ARCserve's Pus Agents. These remote server programs perform all of the file-reading processing, while streaming data across the network to the ACRserve server. This dramatically increases the speed of the remote backup and reduces the overhead on the host server and eliminates repetitive handshaking.

Reliability:- ARCserve provides an automated utility for quick restoration of downed servers. By taking a snapshot of the current server environment and synchronizing it to the backup media, ARCserve can automatically rebuild your server from a single tape and disk - with a minimal NetWare installation.

CHE040 **ARCserve 6 10 users or less.....$449**

CHE041 **ARCserve 6 (workgroup) 25 & over.....$797**

CHEYENNE FAXserve



The Award-winning FAXserve is a high performance, NLM-based facsimile solution, designed to integrate seamlessly with Novell NetWare operating systems. FAXserve's easy-to-use Windows interface simplifies faxing for end users and network administrators. Users send and receive faxes directly from their workstations, store faxes in electronic files and share fax hardware with other users on the network. Network administrators can take advantage of FAXserve's centralized administration, scalability, and high performance.

User Benefits

Numerous functions are just a mouse click away with the award-winning FAXserve interface! Send faxes with ease from Windows, DOS, and E-Mail applications. FAXserve features include optional cover pages, automatic redial, automatic notification of inbound and outbound transmission status, and automatic inbound fax routing. Electronic phone books with Quick Dial and Fax Broadcasting features expedite and simplify fax addressing. Send faxes to individuals or groups.

Administrators Benefits

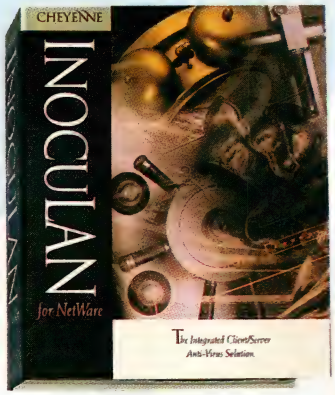
Network Administrators will benefit from FAXserve's NetWare Directory Service support, SNMP Manager support, Windows installation, pre-run configuration check utility, and centralized administration.

Flexible Configuration

FAXserve supports two server configurations. The first is the Host/Run-time configuration and the second is the single server configuration. With Host/Run, all NLMs and communications hardware run on one server, the Run-time server, while users are logged onto a main server, the Host server. This dedicates more processing power to faxing and leaves the host server free to handle other services.

CHE011 **FaxServe 5 users .....$579** CHE010 **FaxServe 10 users.....$1109** CHE008 **FaxServe 25 users $1799**

CHEYENNE InocuLAN For Windows NT or NetWare



InocuLAN is the leading anti-virus solution for Windows NT or NetWare 3.x and 4.x servers, offering unmatched enterprise management and virus protection. Exclusive features of InocuLAN include Real-Time Cure, Universal Manager, Virus Wall, Virus Quarantine, Hands-Free Updates, Extensive Alerting options, Support for Windows NT and virus protection for Internet downloads and e-mail attachments.

InocuLAN is certified by the NCSA to detect 100% of viruses in the wild, carries the "Designed for BackOffice" logo from Microsoft and has won the Editor\155s Choice from Windows NT magazine in both 1995 and 1996. Ideal for Windows NT (Intel, Alpha, PowerPC, MIPS) and NetWare enterprises, InocuLAN is fully integrated with separate Cheyenne Anti-Virus clients for Windows NT, Windows 95, Windows 3.x, DOS and Macintosh Workstations.

Features:

- NCSA Certification
- Scheduled Scanning with
- Alert Systems
- Windows Interface
- File Server Stratification Utilization Gauge
- Real-time Monitor
- Domain Support
- Flexible Reporting
- Enforcement
- Windows, DOS and Mac Client Support

CHE042 **InocuLAN (Netware).....$499** CHE043 **InocuLAN (NT).....$999**

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NETWORKING

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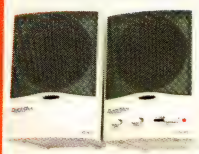
Stereo Speaker System

ACT111



Only $39.95

QS-835
Sound Force 200

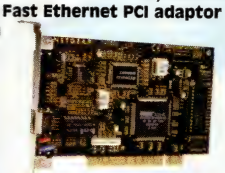
Built-in Stereo Amplifier - Compatible with All Soundcards!

For a limited time only.

FA310 PCI 10/100 Ethernet Adaptor

Bay Networks

The FA310 is an auto sensing 100Base-TX Fast Ethernet PCI adaptor designed to support the next generation multimedia power-application.



Features
- 10/100 Mbps to operate with 10Mbps hubs or switches
- Single auto-sensing RJ-45 port
- Lifetime warrantee and free technical support

BAY109 FA310 TX PCI 10/100 Ethernet Adaptor **$99**

Netgear Network Starter Kit

NEW PRODUCT

Ideal for someone with a couple of computers looking to share files and peripherals. Easy to install and easy to use!

Features
- 4 Port 10Mbps Hub
- 2x 10/100 PCI network cards
- 2 lengths cat 5 cable
- Network starter guide

Bay Networks

BAY143 Network starter pack **$275**

10/100 Mbps Ethernet switches

Increase the performance of your existing network by simply incorporating a switch into your current network

Features
- Auto negation - Full/half Duplex
- speed sensing on 10/100 ports
- Plug and play - no configuration required
- Slimline or rackmountable

Bay Networks

BAY140 2x 10/100 port - slimline **$519**
BAY141 4x 10/100 port - slimline **$919**
BAY142 8x 10/100 port - rackmountable **$2449**
BAY134 8x 10Mbps port **$799**
BAY132 2x 10/100 8x 10 Mbps port (RM) **$1459**
BAY133 2x 10/100, 16x 10Mbps port (RM) **$229**

10 Mbps Ethernet Hubs

Bay Networks

A range of 4,8 and 16 port unmanaged hubs. Ideal for users who require an easy to install, easy to use solution.

Features
- Visa LEDs clearly indicate port status
- Push button RJ-45 uplink port for expansion
- slimline or rack mountable
- Limited Lifetime Warranty

BAY131 4 port slimline 10BaseT **$99**
BAY130 8 port slimline 10BaseT **$129**
BAY105 4 port slimline 10BaseT, AUI, BNC **$159**
BAY104 16 port slimline 10BaseT **$299**
BAY121 16 port rackmount 10BaseT, AUI, BNC **$399**
100Mbps Fast Ethernet Hubs available from **$359**

APC UPS's

Why do you need power protection? An uninterrupted power supply keeps your equipment safe from power events including surge, swells, brownouts and blackouts – and keeps you safe from downtime that power problems invariably produce.

Back-UPS Pro
- Performance protection for advanced workstations
- Automatic Voltage Regulation
- Multistage surge protection
- Plug and play with Win'95
- User Replaceable, Hot swappable
- Line-interactive Design
- Communication Interface Port

Smart UPS
- Performance Power management for advanced business networks
- SmartBooster and SmartTrim
- Nine Wave output
- Available in Rackmount and Extended Run modules
- SNMP Support Available
- Intelligent Battery Management

All have 2-year warranty

Product Code	Description	Price
Back-UPS Pro Plug and Play	See below for Powerchute plus operating system	
APC001	Back-UPS Pro 280 Pnp	$309
APC002	Back-UPS Pro 420 Pnp	$449
APC003	Back-UPS Pro 650 Pnp	$519
Smart-UPS and Powerchute Plus		
APC004	Smart-UPS 450 with Powerchute plus	$669
APC005	Smart-UPS 700 with Powerchute plus	$719
APC006	Smart-UPS 1000 with Powerchute plus	$1129
APC007	Smart-UPS 1400 with Powerchute plus	$1488
APC008	Smart-UPS 2200 with Powerchute plus	$2309
APC009	Smart-UPS 3000 with Powerchute plus	$3249
Surge Protection		
APC010	ProtectNet for telephone and Modem lines	$35

SmartUPS ships with Powerchute plus for NT, Powerchute plus for Netware, Powerchute Plus for Windows, PowerNet SNMP Agent for Netware,HP NetServer Assistant Support(NT and NetWare), Microsoft SMS Support, Compaq Insight Manager (NT and NetWare) Lotus Notes Shutdown Support, DMI Support, Netfinity Support, PowerNetSNMP Agent for NT & SCO UNIX

Back UPS Pro ship with Powerchute Pro PnP for Windows 95, Windows for Workgroups and Windows

APC AMERICAN POWER CONVERSION

Essential hardware protection

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MULTI-MEDIA

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Traxdata CD

Writable Recorders

Writable CD Recorders

TraxData CDR 2600EL CD Recorder Kit 2x6x (Internal)
2x Speed Record, 6x Speed Play

Join the world of CD Recording with the TraxData range of easy-to-install, feature rich CD Recorder solutions. TraxData has tested and selected a complete rang of components to provide the ultimate in CD recording solutions, all in a single box.

TraxData CD Recorders allow you to record all your favourite elements (Music, Data, Photos or Video directly to low cost CD-R discs.

Recording to CD could not be easier! Now, with only a few clicks of a mouse, you can turn your PC into a Digital Recording Studio for any type of content that you have!

TraxData CDR2600 includes:
- CD Recording Software for Windows 3.1x,
- Windows 95 & NT
- UDF Recording Software for Windows 3.1, '95
- Label Design Templates
- 2 CD-R Discs
- Power & SCSI Cables
- Fixing Screws
- CD Marker Pen
- Manual

TRX146 **Traxwriter CDR2600EL Int** **$629**

TraxData CDR 4600EL CD Recorder Kit (Internal)
4x Speed Record, 6x Speed Play

Kit Includes:
- TraxData CDR4600
- CD Recording Software for Windows 3.1x, Windows '95 & NT
- UDF Recording Software for Windows 3.1, '95
- Label Design Templates
- 2 CD-R Discs
- Power & SCSI Cables
- Fixing Screws
- CD Marker Pen
- Manual

TRX147 **Traxwriter CDR4600EL Int** **$929**

TraxData CD Recorder Kit CDE2604P (External Parallel Port Connection)
2x Speed Record, 6x Speed Play

Kit Includes:
- External CD Recorder
- CD Recording Software for Windows 3.1x, Windows '95 & NT
- UDF Recording Software for Windows 3.1, '95
- Label Design Templates
- 2 CD-R Discs
- Power & Parallel Cables
- Fixing Screws
- CD Marker Pen
- Manual

TRX148 **Traxwriter CDE2604ELP Ext** **$799**

TraxData Accessories Kits

Allows users to record audio tracks directly from CD ROM, Hard Drive or Database using Drag and Drop on to CDR. Also enables the removal of crackles and hiss from studio tracks, the creation of layouts for booklet, inlay card and CD label, multi-session audio recording and on the fly audio recording.

Music Kit (Traxaudio Pro software,1x CDR, Audio Cabling and Jack Plug)
TRX142 **Music Kit** **$89**

External Case and SCSI Cable - Upgrade to an external unit
TRX104 **External Case and SCSI Cable** **$210**

ISA Bus Mastering Card, 1x CDR, SCSI Cable, Power Cable and Screws
TRX143 **ISABus Mastering Card** **$119**

PCI Bus Mastering Card, 1x CDR, SCSI Cable, Power Cable and screws
TRX145 **PCI Bus Mastering Card** **$119**

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Scratch and win one of 10 luxury holidays to Barbados when you buy TraxData Gold CD Media. Thousands of other prizes to be won. (Ends December '97)

CD

TRX 103	Traxdata 74min CD Recordable Media with Datagard Protection (Gold/Gold)	$5.99
TRX 105	Mitsubishi 74min Platinum CD Recordable Media with Coating (Silver/Blue)	$5.99
TRX 135	Mitsubishi 650MB Rewritable CD Jewel Case	$49
TRX 125	Mitsubishi 650MB CD Rewritable Cartridge	$59

PressIT Labeller

TRX 107	White Labels for PressIT Labeller (pack of 50)	$25
TRX 108	Red Labels for PressIT Labeller (pack of 50)	$25
TRX 109	Yellow Labels for PressIT Labeller (pack of 50)	$25
TRX 110	Blue Labels for PressIT Labeller (pack of 50)	$25
TRX 111	Gold Labels for PressIT Labeller (pack of 50)	$35
TRX 112	Silver Labels for PressIT Labeller (pack of 50)	$35
TRX 113	Clear Inkjet Labels for PressIT Labeller (pack of 50)	$49
TRX 114	Clear Laser Labels for PressIT Labeller (pack of 50)	$49

Storage disks

TRX 131	Mitsubishi IBM Formatted 3.5" Black Diskettes individually wrapped (box 10)	$9.99
TRX 130	Mitsubishi IBM Formatted 3.5" Colour Diskettes individually wrapped (box 10)	$10.50
TRX 132	Mitsubishi IBM Formatted 3.5" Black Diskettes in Library Case (box 10)	$9.99
TRX 133	Mitsubishi IBM Formatted 3.5" Colour Diskettes in Library Case (box 10)	$9.99

PressIT Custom CD Labeller

Give your CDs a professional image.

Custom Lable your CDs

The PressIT CD Labelling Kit uses a clever yet simple design, allowing you to put professional looking labels on your CDs. This neat and compact labelling system provides the perfect answer to all those CD labelling task which, up to now, have been a real problem. The PressIT uses special die-cut labels (available in a range of colours as well as clear plastic), which can be printed using either an inkjet or laser printer.

PressIT's unique system positions and applies the labels perfectly centered and bubble free every time.

Included in the package are 20 assorted labels and Design Express software that makes creative design straight-forward, together with templates for most MAC and PC based graphic

For Macs: MSWord, Photoshop, QuarkXPress, Illustrator, Freehand, Pagemaker, Claris Works.

For PCs: CorelDraw!, Photoshop, QuarkXPress, Illustrator, Freehand, Pagemaker, MSWord

TRX106 **PressIT** **$79**

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*Full product as shown - OEM packaging. Packaging shown for display purposes only.

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Manage your diary, contacts, meetings and communications via the internet.

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6. **Leonardo the Inventor**

A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

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HP SureStore CD-Re Writable 7100i/7100e

- **Write, update and rewrite**
- **Create CDs for CD-ROM and audio players**
- **Simple as a floppy with all the qualities of a CD**

NEW PRODUCT

HEWLETT-PACKARD SureStore INFORMATION STORAGE

The new HP SureStore CD-Writer Plus offers you versatility. Think of RW-CD rewritable discs as a high capacity, durable floppy. With the HP SureStore CD-Writer Plus you can write, update, erase and rewrite up to 650 MB of data on a single CD, up to 1,000 times per sector per disc. Or make your CDs on CD-R media creating permanent archives of all your critical data with the assurance that the data is secure for up to 100 years.
Share information. With millions of CD-ROM readers worldwide, recordable CD is the ideal way to store and distribute powerful, effective and impressive multi-media presentations. And now with rewritable technology you can easily share or update information.
The HP SureStore CD-Writer Plus has built-in versatility. You can read all your existing data and music CDs, burn CD-R media and use the latest technology in write and re-write CDs.
It's easy to make your own CDs. HP SureStore CD-Writer Plus is the simplest way to make CDs. The CD-Writer Plus comes complete with everything you need to begin making CDs right away, including a blank HP CD-WR rewritable disc. A Multimedia QuickTour gets you up and running in minutes and the Intuitive software, included with your HP SureStore CD-Writer Plus, lets you create CDs with a simple drag and drop.

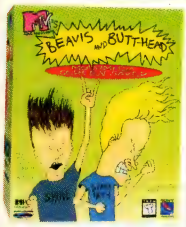
Package includes:
7100i - Internal drive: installation guide (CD), Adaptec Direct CD, Easy-CD Audio, CD Copier and Jewel Case Designer software, IDE data cable and one blank HP CD-WR Disc.
7100e - External drive: installation guide (CD) Adaptec Direct CD, Easy-CD Audio, CD Copier and Jewel Case Designer software, driver diskette, parallel data cable, audio cable, power supply and one blank HP CD-WR disc.

Features:
- Rewritable
- Easily connects to PCs parallel port interface
- Simplicity in making your own CDs
- Potable - share between PCs, laptops or locations
- Meets industry standards
- Performance - 2X recording speed allows you to write 100MB in approximately five minutes
- Multi-session compatible
- Capacity - 650 MB data or 74 min audio
- Durable media - up to 100 years shelf life (CD-R)
- Hewlett-Packard Customer Support via BBS, Website or Telephone
- Includes one year limited product warranty.

Designed for Microsoft Windows 95

HWP250	HP 7100I (Int)	$809
HWP251	HP 7100es (Ext)	$989
HWP252	HP CD Rewritable CD	$45.95
LNX001	Writable CD (5 pack)	$45

Beavis and Butthead. Screen Saver.
GVA007



Only $49

Choose from 30 wallpaper stills. More than 80 video clips from 3 seasons of the MTV series!

For a limited time only.

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HP Colorado 5GB and 5GB External

Breakthrough performance for notebook PC and desktop PC backup

Ideal for notebook PC and desktop PC backups.

NEW PRODUCT

Looking for a PC backup solution that won't keep you waiting? The new HP Colorado 5GB and 5GB external delivers dazzling performance.

Both provide an impressive capacity of up to 5GB on a single data cartridge. The HP Colorado 5GB stores data at a rate of up to 55MB per minute, while the 5GB external stores data at a rate of 40MB per minute. And because it is extremely light, the external model makes a great companion for your portable PC.
Included with the 5GB is the Install Assistant software which automatically detects your system configuration, and guides you through the installation of your internal drive, step by step. Using your tape drive is just as easy, with a choice of one-button or automated daily backups.
And should disaster ever strike, the Windows 95 disaster recovery software gets you back in business fast by allowing you to do a full restore of your hard drive without first having to reinstall your Windows 95 operating system.

Features:
- 2.5GB native capacity, up to 5 GB compressed
- 40-55MB/min backup speed
- Includes Colorado Backup by Computer Associates for Windows 95, Windows and DOS
- Supports Windows NT 4.0 backup utility
- Install Assistant software for easy installation and configuration of internal drives
- Disaster recovery for Windows 95
- Low cost HP Colorado 5GB media
- Two year limited warranty

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HWP301	HP Colorado 5GB Internal	$399
HWP302	HP Colorado 5GB External	$529
HWP303	HP Colorado 5GB Minicartridge	$49

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INTERNET Mate

Simply plug into any soundcard, and talk to anyone in the world!

NEW PRODUCT

Say "Good Buy" to costly international and interstate calls with the worlds first Internet Telephone with Full & Half Duplex Software.

The InternetMate now provides you with the ability to make an international phone call anywhere in the world for the cost of a local call (plus your ISP connection fees). Ideal for business or keeping in-touch with family and friends.

The Internet Mate is packed with features enabling you to connect up to 5 people at once. And with GatherTalk software your InternetMate is much more than a phone.

Video Plug-in - enables you to connect a video camera for face-to-face video conferencing.

WhiteTalk plug-in - enables you to draw in real-time, using pens, lines and circles. You can also transmit Bitmaps and OLE objects.

TextTalk plug-in - enables you to communicate in real-time using a word pad, similar to IRC (Internet Relay Chat).

Say "Good Buy" to costly STD and ISD calls

Use your InternetMate in 3 ways:

1. Connect By E-mail Address

Connect using colleagues and friends e-mail addresses. Simply enter their e-mail address in the edit box and click the connect button.

2. Gather Talk Server

Use InternetMate to chat with like-minded people. With the InternetMate connect to the Gather Talk server and select a topic area for discussion and have a real time chat to whoever is connected at the time you call.

3. Connect By Direct IP

Connect directly by IP. Simply enter the host name or IP address from the field and then click the Connect button.

Free delivery of 2nd Handset anywhere in the world.

With every Internet Mate you receive 2 Handsets. The first handset comes in the box and the second one is sent to anywhere in the world FREE of charge.

Features
- No IRC Server Connection needed
- No need to join a chat room
- Direct Call via E-mail address
- Easy to Install
- No technical knowledge required

Easy Connection

The InternetMate provides all the necessary equipment and software to get up connect. Though you will need a sound card (preferably full duplex), modem and Internet connection. The InternetMate handsets and software are compatible with all sound cards and includes mic/speaker function and is bundled with telephony software.

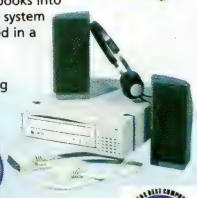
UTC006 InternetMate **$139**

SOUND Mate

Take Your Notebook Out Of The Prehistoric Era.

The SoundMate is specifically designed to bring old Notebooks into the multimedia age. This completely portable multimedia system includes a 12x CD-ROM and a 16 bit sound card all encased in a small lightweight multimedia unit.

Also included is a FREE software package consisting of Asymmetric Web Publisher and Trispective 3D Eye Drawing programs, allowing you to create WEB pages up to any magnitude.



FREE Software Titles valued at $548

Features:
- 16 Bit Stereo sound
- Latest 12xCD0ROM Drive
- Simply plugs into parallel port
- High quality stereo speakers
- Talking software

UTC002 Sound Mate **$599**

EASY Mate

Idiot Proof Multi-Media

– Just plug in and play.

- External 12x Speed High Performance CD- ROM
- Front Loading motorised tray, no caddy required
- High speed reading transfer rate (sustained) 1800KB/second using a high speed parallel port
- High speed access random average:110ms
- Supports High Sierra, ISO 9660, CD-ROM XA, Photo CD & CD-Audio formats
- MSCDEX compatible includes MSCDEX

Includes: 12x CD-ROM and all Cables & Drivers. With bonus Asymmetrical Software - Web Publisher & Tri-Spectives 2D Eye

Bonus Asymmetrical Software

UTC001 Easy Mate **$399**

CDR Mate

The Power To Create Your Own CDs

ATAPI (E-IDE) CD Recordable
6 x Read - 2 x Write

CDRMate CD Writer offers the complete solutions for:

Designing: Creative Multimedia Presentations, Video, Animation, 3D-Effects, 3D Web pages

For Work: Sales/Marketing Information Distribution, Archiving Data & Company Profiles

For Home: Make Audio CD's, Save Important Data, Create Stunning Resumes, and Add 3D Web Effects to Home Pages & View Photo CD's

Archiving: Archiving Maximum of 740 MB of information storage

Provides fast random access to archive data in numerous market areas from graphic to multimedia

Provide low cost per Mb removable storage (Compact)

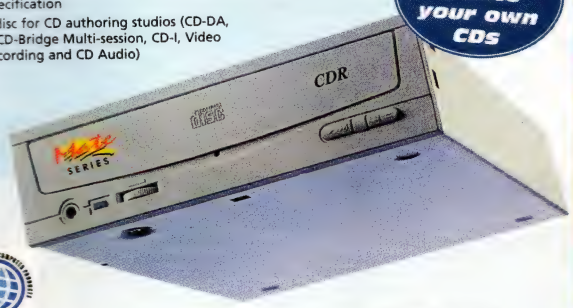
Provides good data integrity for long term storage

Flexible: Recording Disc can be read on every available CD-ROM player

Conforms to write-once format within the standards of the Orange Book Specification

Master disc for CD authoring studios (CD-DA, CD-XA, CD-Bridge Multi-session, CD-I, Video Data Recording and CD Audio)

The power to create your own CDs



UTC005 CDR Mate 6 x Read - 2 x Write **$649**

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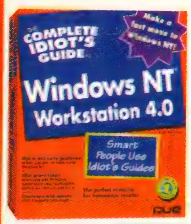
Idiot's guide to Windows NT Worksation 4.0!

IDI002



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A Quick and easy step by step overview to help new and upgrading windows users !

Viper V330

Introducing the true 128-bit accelerator.

DIAMOND MULTIMEDIA

NEW PRODUCT

Get ready to think fast with the ultimate 2D, 3D, and video accelerator. Diamond Multimedia's amazing new 128-bit Viper® V330 leaves all those 64-bit cards and the other "so called" 128-bit cards in the dust. The Viper, powered by NVIDIA's RIVA 128 chip, blazes through the most complex 2D business graphics with its huge 1.6GB per second bandwidth and 4MB 100MHz SGRAM memory. And, with its explosive new 3D engine, it won't ever compromise screaming fast frame rates for phenomenal animation and visual quality. As a result, the Viper delivers stunning realism for your 3D business and entertainment applications. If our unofficial testers could talk, they'd tell you that no other accelerator brings together such an impressive combination of 2D speed and 3D graphics.

Features

- Record-breaking acceleration for Windows NT and Windows 95
- Phenomenal 3D frame rates—supports 20 billion operations/second
- Engineered for Direct3D—the most widely-supported game API
- Advanced video features—supports TV-out for big screen computing
- Provides seamless upgradeability to TV tuner, video capture, and DVD
- Bundled with 8 hot business and gaming software titles, including iF-22: The Realistic Simulation of the F-22 Raptor and Moto Racer

DIA040 Viper V330 ..... **$409**

STEALTH II S220

Unbelievable combo of advanced 3D graphics and 2D acceleration.

DIAMOND MULTIMEDIA

NEW PRODUCT

Break through to brilliant graphic performance in every Windows application plus mind-blowing 3D and full-motion video for gaming, multimedia and Internet multimedia. Stealth II makes legendary Stealth performance more affordable than ever. Unlike other graphic accelerators that are strong in 2D or 3D, but not both, Stealth II delivers envelope stretching performance for everything from spreadsheet to shootouts. Stealth II is equipped with 4Mb of fast SGRAM, is designed for the PCI bus and is windows 95 plug and play compatible. Plus it includes a game sampler CD ROM and is upgradeable to must have technologies including DVD, TV tuning and video capture.

Features

- Outrageous speed
- Millions of colours
- Radical 3D Gaming
- Breakneck Windows performance
- Advanced 3D Rendering for Unbelievable 3D Gaming
- 4 Mb Fast SGRAM Memory for Optimum Graphics Display
- Upgradable to DVD, TV tuner and Video Capture

FREE! Game sampler CD-ROM including Forsaken, Motor Racer, Half Life-AVI and SODA Off Road Racing, Terracide and Wipe Out XL.

Visit us at www.diamondmm.com

DIA041 Diamond Stealth II **$235**

VideoDirector Studio 200

Turn your raw video footage into perfectly edited productions.

NEW PRODUCT

Editing your video use to be a juggling act - trying to fast-forward to just the scenes you want to copy.

Choose the best, edit the rest!

Just play your video through the VideoDirector Studio mixer and it automatically detects and marks the beginning and end of each new scene. Then grabs the first frame of every scene and remembers where it is on the tape. To edit, just drag and drop your favourite scenes in the order you want. It couldn't be easier!

Tell the story with titles and transitions.

Once you have selected your scenes and put them in sequence, you can add true, professional-quality transitions - choose form over 100 Wipes, Fades, and Dissolves! Or add coloured, transparent, or drop-shadow titles.

Now here this.. A professional sound track

Next, record some narration for your video, add music, and even sound effects. VideoDirector Studio 200's audio features give you control of the soundtrack of your personal production.

As easy to use as your camcorder!

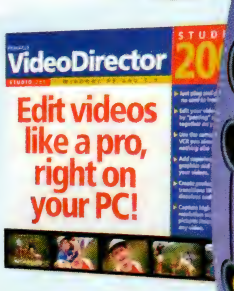
When you have finished with your production, just click on "Make Tape." VideoDirector remembers the location of every scene on your source tape and then automatically finds and record each shot and effect your have selected. In minutes, you will have all the highlights to your video on one exciting tape.

Easy to install - Start editing in minutes!

Setting up VideoDirector Studio 200 to work with your PC is easy! Just attach it to your computer's parallel port, connect your camcorder and VCR using standard cables, and you are ready to go. Best of all, you don't have to open up you computer and VideoDirector does not fill your hard drive with huge video capture files.

Grab high-resolution video frames in a snap!

Video Director Studio 200 captures still frames from your videos, too. Just pick any image your camcorder can see and grab an instant digital "Snapshot". You can add it to any PC document, or even edit it back into your next video production.



Package Includes

- VideoDirector 200 Mixer: (Connects to your PC's parallel port. Includes S-video and composite video inputs/outputs and printer pass through.)
- Smart Cable (Controls your camcorder and VCR)
- VideoDirector 3.0 software
- Title Editor 3.0 software
- Audio Editor software
- CD-ROM of Clip Media

BEST OF 1997 RetailVision · NEWMEDIA MAGAZINE THUMBS UP · VIDEO camera AWARDS · VideoDirector 200 · Windows EXPERTS CHOICE · Videomaker BEST OF YEAR · the BEST of EVERYTHING Computer Life

Stock Code NIT004

$649

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COMPRO Super Pack

Open the Compro Super Pack and find your choice of a fast Compro 12X or 24X CD-ROM drive plus Sound Card and a pair of Compro Stereo Speakers

For even greater value to the 1997 Best '7" pack, 7 new fantastic CD titles have also been included.

3D/EYE TriSpectives 1.0
TriSpectives is a complete 3D-drawing program for Windows 95. With over 1,000 professionally designed 3D Intellishape models, you can use TriSpective to create amazing 3D animation, illustrations and drawings.

Asymetrix Digital Video Producer 4.0
Asymetrix Digital Video Producer 4.0 is the easiest tool available to assemble digital movies and edit video and audio clips on your desktop PC

Asymetrix 3D F/X 2.0
3D F/X is graphics and animation software that allows Windows 3.1/95/NT users to create high impact professional-quality rendered images and animation.

Compel 2.0
Interactive presentations made easy. Work with text, graphics, animation, sound and video to create stunning interactive presentations.

Web 3D
Web 3D is the easy way to put incredible 3D images and design elements into your home pages. Compelling graphics and up-to-date information are keys to getting new and repeat visits to your home page.

Web Publisher
Choose from 20 different completed sets of professionally created theme templates, which include banners, buttons, backgrounds and other Java powered graphic elements.

Encyclopedia Of Their Sacrifice
Their Sacrifice CD ROM captures the sounds, sights, thoughts and lives of Australians both at home and at war during World War II. The CD contains over 400 photos and images and 30 minutes of original film, and 90 minutes of recordings.

CMP001 Compro Super Pack (12x CD ROM Drive) **$299**

CMP002 Compro Super Pack (24x CD ROM Drive) **$315**

The 1997 Best '7' Pack includes: Grolier 1997, Mega Race 2, Master clips 10,000, Chess Master 4,000 Turbo, Mavis Beacon Teaches Typing, US Atlas, and World Atlas.

ASYMETRIX Asia Pacific

COMPRO Digital Internet Camera -Premium Pack

Make your creative ideas a reality with the COMPRO Digital Camera!

The COMPRO Premium Pack comes with the following software;
D-Viewer, a user friendly Windows compatible software application that allows full control of d-Cams functions for optimal image capturing.
AVI Driver - A Microsoft MCI compliant software driver that allows you to interface the camera directly to your favourite Video Conferencing software or any other AVI application.
TWAIN Driver - An industry standard still image capturing device driver that allows you to interface the camera directly into your favourite TWAIN compatible image enhancement, painting or Photo ID software.

The Compro Super Pack consists of:

- Compro Digital Camera
- Fiber & Wireless Mediafone Video Conferencing Software - An easy-to-use yet feature rich Video Conferencing software that allows you to conference over the Internet and Normal Telephone line.
- Ulead Video Capture / Editor - A useful motion picture capturing tool that allows you to record video and audio clips and save to AVI files.
- Ulead Image Editor / Viewer - A powerful still image enhancement and photo touch-up tool that gives you full control over image characteristics, a special effects and painting functions to create your ideal picture.
- Ulead Photo Album - A user friendly image database that allows graphical browsing and retrieval of images. Supports OLE feature that enables you to drag and drop
- Ulead Imorph Editor software - Allows you to generate fantastic Hollywood morphing effects found in the movies.
- Asymetrix Video Producer Version 4.0 Software -
- Compro Microphone on Stand

Designed for Microsoft Windows 95

CMP003 Compro Internet Digital Camera **$299**

COMPRO CD Recorder Kit

High Speed Operation - The 4x writing speed reduces the time taken to complete write operations compared with conventional CD recorders. The 8X reading speed is capable of fetching up to 1.2MB per second
Fixed and Variable Packet Writing - Compro CDR 7502 supports fixed and variable packet writing which significantly reduces the overhead of incremental writing. Also supports Direct CD
Running Optimum Power Control (OPC) - Compro CDR 7502 supports OPC which dynamically regulates the laser power to suit media from different manufacturers which means most CDs can be used with Compro CDR 7502
Easy Installation and Operation - Compro CDR 7502 CD-Recorder kit includes a [plug and play SCSI card and comprehensive user manuals to ensure smooth installation and operation. The CD recording software offers intuitive Graphical User Interface with detailed on-line help.
Highest Reliability - Compro CDR 7502 Drives are developed and manufactured by Matsushita in Japan to ensure the highest reliability. Each drive has been carefully calibrated to conform to major CD standards.

The Compro CD Recorder Kit consists of;

- Panasonic CW-7502 Drive (4 write X 8 read)
- Adaptec SCSi controller card
- Gear CD mastering software and Direct CD software
- Asymetrix WEB3D and WEB Publishing software
- Asymetrix Compel 2.0 and 3D F/X 2.0 software
- 2 Blank CDs plus a 16 CD carry case

CMP004 Compro CD Recorder Kit **$945**

Choose a Free CD with every order!*

*Full product as shown - OEM packaging. Packaging shown for display purposes only.

1. **MasterClips 1000** — A collection of professional colour clipart
2. **Starfish Internet Utilities** — Manage your diary, contacts, meetings and communications via the Internet.
3. **Bodyworks V3** — Learn all about the human body with multimedia guide.
4. **TurboCAD V1 Windows** — The most significant release of any CAD software this decade
5. **EZ Language Version 1** — EZ Language V1 is the fun & easy vocabulary pronunciation tutor for 7 different languages
6. **Leonardo the Inventor** — A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

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GVA008

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For a limited time only.

Smart & Friendly

2X CD Recording Station CD-R 2006

FAST

FAST - Awesome value and ease of use!

Boasting 2X record (300 Kbytes/sec) and 6X read (900 Kbytes/Sec) speed, this affordable CD-Recorder is bound to please both seasoned multimedia pros and first-time home users alike... especially those on a budget. The CD-R 2006 includes all the latest software to create CDs the way they were meant to... fast and trouble-free.

Bundled Software includes: • CD Consultant • CDR Disc Jockey
Supplied with PC and Mac software http:// www.smartandfriendly.com.

VER070 Smart and Friendly CD-R 2006 (Internal).....**$669**

VER071 Smart and Friendly CD-R 2006 (External).....**$829**

Quad-speed/CD-Recording Station/CD-R 4006

FASTER

FASTER - Breaking the speed barrier!

If creating CDs fast is your thing, then this speed demon will record a 650MB disc in just 17 minutes! Plus, thanks to its blazing 6X reading speed, you'll enjoy the latest software titles with flicker-free video, seamless animation and crystal-clear sound. Better yet, you'll access data from source discs in a heartbeat. Available in both internal and external models.

Bundled Software includes: • CD Consultant • CDR Disc Jockey
Supplied with PC and Mac software http:// www.smartandfriendly.com.

VER072 Smart and Friendly CD-R 4006 (Internal).....**$1109**

VER073 Smart and Friendly CD-R 4006 (External) **$1289**

VER043 CD DataLife 640 MB CD.....**$4.50**

DVD ROM Upgrade Kit

Verbatim

NEW PRODUCT

The 2nd generation of DVD-ROM drive has arrived!

The GD-2000 offers exceptional reliability and first class performance with both CD-ROM and DVD and DVD-ROM disc.

First-class DVD-ROM and CD-ROM performance
The GD-2000 features leading-edge technology that pushes performance to new hights: 2x speed (2.76 Mbytes/s) for DVD-ROM, and 20x max. speed (3.34 Mbytes/s, full CAV) for CD-ROM.

CD-RW (CD-E) compatibility
Capable of reading new CD-RW format, in addition to the other CD-ROM, CD-R and DVD-ROM formats already available or announced, the GD-2000 offers maximum compatibility.

ATAPI (Enhanced IDE)
Enhanced IDE, the most popular interface for both hard disks and CD-ROM drives, offers proven performance and reliability. With ATAPI PIO (Programmed I/O transfer) Mode-4 compatibility, the GD-2000 boasts data throughput that is more than sufficient for today's most demanding multimedia titles.

High Reliability
Hitachi is renowned for high reliability and several improvements will be even more reliable.

Features: Included in the kit:
- One Hitachi GD-2000 DVD-ROM Drive,
- One Quadrant International Cinemaster Card,
- Four DVD-ROM titles:
- Muppet Treasure Island - Activision
- Spycraft - The Great Game - Activision
- Daedalus Encounter - Mechadeus
- The Genius of Edison - The Learning Company

2nd Generation

Ver074 DVD ROM Upgrade Kit **$899**

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SONY SRS-PC21

A light compact entry level model with a modern design.

Featuring Intelligent Base Boost, the SRS-PC21 automatically enhances bass sounds with no risk of distortion. High-quality listening at an affordable price.

- Intelligent Bass Boost (IBB) for automatic control of rich bass sound
- Active or passive use

SONY30 SRS-PC21 .....**$49**

SONY SRS-PC41

This speaker offers a stylish design with powerful IBB bass sound and a frequency response of 70 Hz to 30 kHz. An additional output jack offers extra bass for a sub-woofer that can be controlled from the SRS-PC41.

- Intelligent Bass Boost (IBB) for full resonant bass sound
- Dual input for audio mixing
- Audio output jack for sub-woofer

SONY31 SRS-PC41 .....**$105**

The SONY SRS-PC300D

For music connoisseurs who expect the best, the SRS-PC300D provides a big sound matched by rich, resonant bass. This is a dynamic three piece system offering a total output power of 25W.

The positioning is entirely variable and allows you to sense the sound coming from different directions – try mounting the smaller speakers on the monitor at ear level using the supplied adaptor and placing the sub-woofer beneath the desk. Game enthusiasts will enjoy multi-dimensional sound effects such as bombs exploding all around them!

Home Stereo Quality
The SRS-PC300D has two audio inputs and a function selector for mixing the two so you can match sound from games, music CDs software applications. It also features a variable bass boost control for enhancing its rich bass quality, making music listening as much a pleasure on your home stereo unit.

Features
- Dynamic three piece system for multi-directional sound effects.
- Exceptional output power plus variable bass boost control for rich, resonant bass.
- Two audio inputs, mixing function and headphone jack for easy output switching.

SONY32 SRS-PC300D.....**$269**

Labtec Speakers

Labtec Speakers

Game Series LCS-3210 Amplified Computer Speakers

For the ultimate Multimedia Experience

Features:
- Greater bass output levels.
- Ideal matching of sub woofer to satellites - regardless of brand.
- Master volume buffered outputs >60 ohms impedance
- 13.3 cm Max-X high woofer& 680 gram magnet structure.
- 14 Watts RMS total into 4 ohms
- Optimised port base extended response to 35Hz
- One year limited warranty

America's #1 Selling Computer Speakers

IBM012 LCS 3210 Amplified Computer Speakers.....**$169**

Game Series LCS-2612 Amplified Computer Speakers

The ideal speaker system for enhanced CD-ROMs, games and music

With Spatializer technology the LCS 2612 Amplified Computer Speakers create vivid, expansive, and interactive three-dimensional surround-sound listening experience ideal for enhanced CD-ROMs, games and music.

Features
- 20 watts (4w + 4w + 12w) into 4 ohms load with <10% THD both channels driven
- Frequency response : 40 Hz-20kHz
- Magnetically shielded to protect monitor, hard drive and disk storage
- 13.3 cm Max-X high excursion subwoofer
- 7.6 cm Max-X high excursion driver
- One touch mute button for enhanced control
- One year limited warranty

Each Set Includes Free Headset worth $29

LAB011 LCS 2612 Amplified Computer Speakers **$199**

Labtec LCS-2408 Universal Subwoofer

Sound seems to come from all around you

The first universally compatible multimedia subwoofer that is compatible with virtually all amplified satellites speakers on the market today - works with or without a subwoofer output jack.

Features:
- Suppression circuit provides bass output levels without distortion.
- Ideal matching of sub woofer to satellites - regardless of brand.
- Will drive all amplified satellite speakers with 60 ohms or higher impedance
- 13.3 cm Max-X high excursion woofer with 6 layer voice coil and massive 680 gram magnet structure.
- 14 Watts RMS total into 4 ohms
- One year limited warranty

Magnetically Shielded

LAB010 Universal Subwoofer **$109**

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AI Gotcha 2
Portable Video Capture

Take snapshots of your favourite images from Camcorder, VCR, or other Video source in 16.7 million colours into your PC. You can use photos for multimedia presentations, web page publishing, disk-based catalogues personal photo albums, image database, digital greeting cards, newsletters, e-mails and much more. This is a simple plug-in (parallel port) and play device providing a high quality portable capture solution. By connecting to a video source, whether composite or Y/C, an extremely high quality image can be captured (1600 x 1200 dpi) into any of the supported graphic file formats.

Features
- AiGotcha! Real-time image capture software
- Internet audio postcard
- Parallel port extension cable
- AIGotcha hardware (NTSC/PAL)
- Video Craft Multi-Media suite of special effects
- Pass through printer connections

Free Headset & 3D Game

ASS011 AI Gotcha **$369**

WaveWatcher TV PCI Card
Video capture (to 30 f.a.s.) and TV tuner PCI card with remote control

The WaveWatcher provides resolution up 768x560 at 30 fps or single frame / display mode up to 1280x1024 in 24 bit true colour
This simple to use Plug-n-play installation makes getting started a snap. The WaveWatcher PCI bus, eliminating the need for feature connector as well as the VGA looping cable.

A MultiMedia Studio on Your Computer
Capture full motion video direct from your TV, camcorder of VCR with CD-quality sound. Includes Media Studio Pro 2.5 professional editing and special effects software & allows the creation of full motion multi-media clips with up to 101 simultaneous video and audio tracks.

125 Channel TV Turner
Featuring 125 Channel TV Turner with Background viewing. Simply plug your T.V. antenna input directly into your computer and watch your favourite shows and movie on UHF or VHF while running other applications.

Video Conference Enabled
Works with your video camera, modem and video conferencing software for improved image resolution and faster frame rates. Includes Unled's MediaStudio 2.5 Video Editing Software.

Free Headset & 3D Game

ASS006 WaveWatcher (PCI Card only) **$359**

Pocket Scan Converter (PSC 1106)
Your business presentations on the big screen.

Using the Pocket Scan Converter in conjunction with your notebook computer (or PC), any presentation can be displayed on a TV or recorded onto video tape, making the Pocket Scan Converter ideal for business, education and training applications. This compact device simply plug into your notebook/PC and the other end into a TV/Video to put your presentations onto the big screen. And when the work is done,play computer games on your TV. Designed with flicker reduction circuitry and S-VSH support, the Pocket Scan Converter produces extremely vivid, high quality images with up to 16.8 million colours.

Free 3D Game

ASS001 PSC 1106 ..... **$209**

Cardex Dragon 2000
Super Fast 3D Turbo Card

Transforms your PC into the ultimate gaming station with revolutionary 3D interactive real time technology, giving you arcade game station quality 3D performance that fully supports Windows 95 Direct 3D. Comes with 4Mb EDORAM for ultra fast action.

Features
- Fully supporys all PC97 3D Standard Features
- Revolutionary 3D Interactive Real-Time Technology
- The easiest way to turn your PC into the ultimate gaming station
- Arcade game qualaity for an at-home price!
- Cyber speed 3D game

Free 3D Game

ASS015 Cardex Dragon 2000 ..... **$545**

PC-DVD Encore DXR2

Creative Labs, the creator of Sound Blaster and the market leader in multimedia upgrade kits once again leads the world in bringing you the future generation of digital home-entertainment to your PC and living room.

With Creative PC-DVD Encore Dxr2, you get technologies and experiences totally unprecedented on your PC today, such as vibrant digital imagery of MPEG-2 video that's uniquely enhanced for high-definition and smoothness, the sparkling clarity and room-shaking thunder of Dolby Digital (AC-3) audio with cinema-like surround-sound, and massive high-speed storage. It's as if the future is already here.

What is DXR2? PC-DVD Encore Dxr2 is the DVD upgrade kit for your PC, which includes a second-generation PC-DVD ROM drive combined with the PCI-based Dxr2 card that includes state-of-the-art picture enhancement technology and MPEG-2/Dolby Digital decoding. With PC-DVD Encore, you get 7 futuristic entertainment solutions for an incredibly low price.

leads the World in multi-media upgrade kits

Features
- DVD Player for your TV - Plays on big TV and Video Screen
- DVD Player for your PC - Enjoy an avalanche of Hollywood movies, games and entertainment like never before
- Blazing 20x Speed CD-ROM Drive - Data access and transfer at a super fast 100ms
- 2nd-Generation, 2x Speed DVD-ROM Drive - Double the speed of the competition
- Stores up to 17 Gigabytes of data. No more CD-R incompatibility plaguing all first-generation DVD-ROM drives.
- VideoCD (H/W MPEG-1 Player) - Enjoy the thousands of entertainment titles available
- Dxr2, State-of-the-Art Picture Enhancement
  In a class with expensive "line doublers," our DynamicXtended Resolution (Dxr2) video enhancer performs as well, if not better, than other professional line doubling systems costing thousands of dollars.
- Dolby Digital AC-3- Audio To wrap up the awesome features
  PC-DVD Encore comes with Dolby Digital (AC-3) audio output. You can enjoy the hi-fidelity acoustic clarity of Dolby Digital audio, down-mixed to 2 channels on your PC sound system or you can have a full-blown, room-shaking, theatre-like experience of a 6-speaker (5.1 channel) surround system with an optional low-cost consumer Dolby Digital receiver.

Stock Code:CRE040

$749

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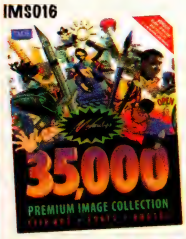

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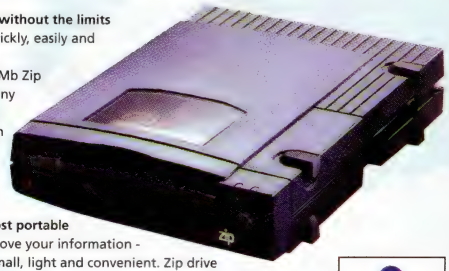
Spend over $50 & Buy Masterclips 35,000 (CD's Only) - For Only $19.95 a saving of $25!

For a limited time only.

ZIP — An affordable personal storage solution in one!

Expand your hard drive without the limits
Increase your storage quickly, easily and economically - as you need it. With 100Mb Zip Disks, you can add as many disks as you need and if you're using compression software, you can keep up to 200MB of your stuff on a single Zip drive.

The newest smallest, most portable drive. The best way to move your information - Zip drive and disks are small, light and convenient. Zip drive weighs about 450g and fits easily in your hand,bag or briefcase.



- **Expand your hard drive without the limits** (100MB at a time)
- **Take it with you** (Zip drive and disks are portable)
- **Backup your hard drive** (fast and easy)

zip 100 parallel port — iomega

IOM022	Zip Drive External (Parallel port)	$259
IOM020	Zip Drive External (SCSI port)	$259
AUP157	Zip Drive Internal 3.5 (Includes SCSI Controller Card)	$259

JAZ — Jaz is the perfect choice for hard drive upgrades!

An ideal answer for multimedia
Jaz drives and disks are the ideal solution for storing, transporting and playing multimedia applications. You can pack up to 1 gigabyte on each disk, and there is no limit to the number of disks you can use. The jaz drive's speedy access times and rapid transfer rate mean you can quickly and easily move files around.
And the Jaz drive can handle even the most demanding usages, including full-screen full motion video.

- **Faster than most hard drives** (Works as fast as you do)
- **Provides 1GB of disk space on each compact cartridge** (Enough to back up your entire hard drive)
- **Portable- goes where you go** (makes transporting information easier)

jaz 1GB drive portable scsi — iomega

IOM023	JAZ drive (SCSI External)	$699
IOM021	JAZ drive (SCSI Internal)	$509

ZIP & JAZZ DISKS

AUP160	3x ZIP 100Mb PC Disks	$79
IOM030	10x ZIP 100Mb PC Disks	$219
AUP161	3x ZIP 100Mb Mac Disks	$199
IOM044	6x ZIP 100Mb PC Disks	$149
IOM032	3x JAZ Media PC Disks	$449
AUP162	3x JAZ Media Mac Disks	$449
AUP163	JAZ Traveller (Transfers data from a Mac to a PC)	$69

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SONY StorStation

Ultra-Compact Ultra-Fast Ultra-Easy

The Sony StorStation Tape Drive, with a capacity for up to 2.0GB, it's a great way to backup your hard drive.

The StorStation is easy to install, taking only minutes and connects to the parallel port for convenience. It is also small, light and very portable.
The StorStation lets you protect the contents of your hard drive just by clicking an icon. You can also schedule backups, so even if you forget, the StorStation does not. You can also perform Backup in the background. This function lets you continue to use your computer, as your hard drive is being protected.
Restoring is just as easy with a simple click, as with the copy function from tape-to-disk and disk-to-tape.

SONY

Features
- 2.0GB Capacity (with compression)
- Parallel Interface Cable Included
- One-Step Backup
- Easy installation
- Includes powerful software for DOS Win 3.1 & 95
- One QW2GB Data Cartridge

Stock Code: SONY21
$325

Sony QW2GB data cartridges

Sony QW2GB data cartridges, the reliable and versatile solution for data backup. With a maximum of 2GB capacity, compatible with Sony Storestation and Ditto Drives.

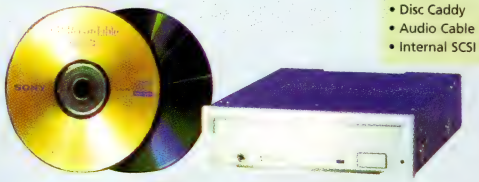
SONY20 Sony QW 2GB data Cartridge (5 pack) **$209**

SONY CD-ROM Recorder

Spressa Recordable CD-ROM (CDOR) Drives - 2x Write/6x Read

Create your own CD-ROM discs or back-up/archive with your data with the Sony Spressa, Recordable CD-ROM Drive. With the Spressa, creating CD's is easy, efficient and inexpensive. Whether it's a document, database, image file, multimedia presentation or other information, the Spressa provide users the capacity to retain, distribute and access data.
Bundled with the Spressa is CD Creator Mastering Software, enabling users to enjoy ease of use and powerful functions. The robust features of the CD Creator include Disc Wizard for assisting the disc creation process, a jewel case editor for creating customised inserts, video CD and Photo CD creation capabilities, CD duplication services and studio (WAV) file editing capabilities.
Spressa CD-R drives are compatible with Windows 3.x, Windows 95 and Windows NT

Supplied Accessories:
- One CD-R Disc
- Drive Letter/Number Labels
- Disc Caddy
- Audio Cable
- Internal SCSI Cable



SONY

SONY22	Sony Spressa External	$1209
SONY23	Sony Spressa Internal	$969

Sony Recordable CD media

Sony CD-R media has a large 650MB recording capacity for digital data: computer, audio and digital video. These Write-once CDs are extremely reliable and ideal for a wide range of applications.

SONY24 Sony CD-R media (10 pack dual case) **$109**

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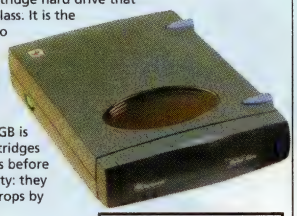
SyJet 1.5GB
Bigger, Faster and Better

SyJet is designed to offer maximum performance flexibility and reliability, at tremendous value.

SyJet 1.5 GB is a high-performance removable cartridge hard drive that boasts the highest capacity of any product in its class. It is the logical choice for professional musicians and audio mixers, digital video editors, graphic designers and desktop publishers, multimedia developers, webmasters, presenters, road warriors, engineers, gamers who want screaming performance, and countless others.



Like all SyQuest removable hard drives, SyJet 1.5 GB is built in Class 100 clean rooms. Each drive and cartridges are shock-resistant and must pass drop shock tests before qualification. Cartridges are designed for durability: they are designed to survive falls from desktops and drops by users.

SyJet Means SPEED

SyJet's unique design provides a high-performance minimum sustained read/write data transfer rate of 3.7MB/sec. - fast enough to sustain full motion video without dropping frames - while approaching a maximum data transfer rate of 7MB/sec. The SCSI burst is 10MB/sec. An EDIE (PIO Mode 4) version allows a burst up to 16.6MB/sec. similar to the rate attained by today's IDE-based fixed hard drives.

What the press are saying

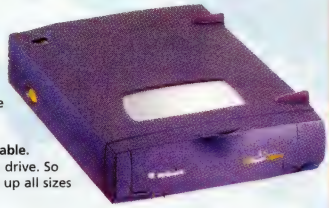
"SyJet: A Better Way to Store your Stuff" - Macworld, May 97.

"Sleek in looks and fleet in performance, the SyJet 1.5GB matches or exceeds the performance of the Iomega Jaz drive and offers more capacity" - Windows, April 97.

SYQ020	Internal SCSI Kit 1.5GB (PC)	$569
SYQ021	Internal SCSI Kit 1.5GB (Mac)	$569
SYQ022	External SCSI Kit 1.5GB (PC)	$759
SYQ023	External SCSI Kit 1.5GB (Mac)	$759
SYQ024	Internal EIDE Kit 1.5GB (PC)	$569
SYQ025	External Parallel Port Kit 1.5GB	$759
SYQ026	1.5MB Media for SyJet - PC	$219
SYQ027	1.5MB Media for SyJet - Mac	$219

EZFlyer 230MB
External SCSI & Parallel Port Internal EIDE

The world of personal computer storage is changing, fast. Files are huge and getting bigger. The floppy is no longer big enough and the fixed hard drive is just that fixed, and difficult to upgrade.



The EZFlyer 230 from SyQuest solves the storage problems of today, better than any other product. It combines the flexibility of a data cartridge three and a half inches square with the blazing speed of hard drive technology.

Instant access to files. Random access. Bootable.
The EZFlyer 230 works just like a fixed hard drive. So quickly referring to, updating, and backing up all sizes of files on a continual basis is a breeze.

Super fast hard drive
The EZFlyer 230 is a hard drive; one that never fills up. The EZFlyer 230 is the only removable cartridge in its price range. It uses the same proven components as fixed hard drives and provides speeds significantly faster than other technology.

Endless Capacity
It's amazing how fast your fixed drive fills up. With the EZFlyer 230, when you need more space, you simply add more cartridges.

What the press are saying

"High Flyer Offers EZ Data Storage"

"The EZFlyer Really soars"

"Installation was a snap"

"The EZFlyer is light enough to be portable, rugged enough for constant use and quit even in close quarters" - Windows, October 96.

"The EZFlyer 230 is a dream to use - it simply appears as another hard disk drive." - Home Office Computing, November 96.

SYQ028	External SCSI Kit (PC)	$299
SYQ029	External SCSI Kit (Mac)	$299
SYQ030	Internal EIDE Kit (mount in 5.25")	$299
SYQ031	External Parallel Port Kit	$299
SYQ032	230MB Media for EZFlyer (PC)	$55
SYQ033	230MB Media for EZFlyer (Mac)	$55

Western Digital CAVIAR Hard Drives

Western Digital

Western Digital CAVIAR hard drives are customer-focused to bring you affordable high capacity storage solutions. Each enhanced IDE (EIDE) hard drive comes with a three year warranty. Each is fully tested to ensure compatibility, reliability, and exceptional quality. Western Digital Hard Drive Kits provide everything you'll need to get your new drive up and running: hard drive, mounting hardware, cable, and detailed instructions. Also included is free installation software designed to work with Windows 32-bit disk access, Windows 95, windows 3.1x, Windows NT, OS/2 2.1x, and OS/2 Warp. This software successfully overcomes two potential system BIOS limitations, and makes installation a breeze.

Physical Specifications

Model	Caviar 2.1	Caviar 2.5	Caniar 3.1	Caviar 4.0	Caviar 5.1
Interface	40-pin EDIE	40-pin EDIE	40-pin EDIE	40-pin EDIE	40-pin EDIE
Formatted Capacity	2111.8MB	2559.8MB	3166.7MB	4000.7MB	5163.5MB
Actuator Type	Voice Coil	Voice Coil	Voice Coil	Voice Coil	Voice Coil
Bytes per Sector	512	512	512	512	512
User Sectors per Drive	4,124,736	4,999,680	6,185,088	7,814,016	10,085,040
Servo Type	Embedded	Embedded	Embedded	Embedded	Embedded
ECC - Reed Solomon	Yes	Yes	Yes	Yes	Yes
Dedicated Landing Zone	Yes	Yes	Yes	Yes	Yes
Actuator Latch/Auto Park	Yes	Yes	Yes	Yes	Yes
Recommended Setup	4092x16x63	4960x 16x63	6136x16x63	7752x16x63	10672x16x63

Performace Specifications

	4.0GB	All Other Drives
Seek Times:		
- AverageRead Seek	11ms	Sub 12ms
- Track to Track	3.0ms	3.0ms
- Full Stroke Seek	21ms	22ms
Average Latency	5.8ms	5.76ms
Rotational Speed	5200RPM	%200RPM
Data Transfer Rate:		
- PIO burst	16.6MB/s	16.6MB/s
- DMA	16.6MB/s	16.6MB/s
Read Cache	Adaptive Segmented	Adaptive Segmented
Write Cache	Yes	Yes
Buffer	256KB	128KB
Start/Stop Cycles	40,000 min	40,000 min

WES050	2GB Drive Kit	$359
WES051	3.2GB Drive Kit	$429
WES052	4.3GB Drive Kit	$469
WES053	6.1GB Drive Kit	$699
WES054	6.4GB Drive Kit	$719

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4. **TurboCAD V1 Windows** — The most significant release of any CAD software this decade
5. **EZ Language Version 1** — EZ Language V1 is the fun & easy vocabulary pronunciation tutor for 7 different languages
6. **Leonardo the Inventor** — A multimedia exploration of the life works of Leonardo da Vinci. (No 3D glasses)

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SuperDisk

The Future of Data Storage

The Imation SuperDisk diskette is a 120MB diskette bases on the high-capacity LS-120 diskette technology developed by Imation.

SuperDisk LS-120 Drive

This is the only high-capacity bootable drive solution that also reads and writes standard 1.44MB diskettes, of which there are billions in use today around the world.

Backwards Compatible

The SuperDisk LS-120 drives are backward compatible so that they can read and write all 3.5", diskettes both in 1.44MB and 720KB formats. This unique advantage means that all of the important information and data currently stored on those billions of 3.5" diskettes in use world-wide can still be accessed.

High Speed

SuperDisk LS-120 drives spin at high speed and can generate substantially faster data transfer rates. The transfer rate is up to five times faster than conventional diskette drives. Even when using conventional diskettes and are up to three times as fast as conventional drives.

Features

- Accepts all SuperDisk LS-120 and standard 3.5" floppy diskettes
- Moves files up to five-time faster than conventional drives
- Even faster with Performance Accelerator software -faster than a parallel Zip Drive
- Just plug the SuperDisk Driver into the printer port and run the installation software.

IMA003 SuperDisk LS-120 Drive **$275**

SuperDisk

LS-120 Diskettes

The SuperDisk LS-120 diskette looks similar in size and shape to the standard 3.5" diskette, and is just as simple to use 120MB capacity.

Large 120MB Capacity

With 120MB of usable capacity, a SuperDisk features 83 time more capacity than a conventional 1.44MB diskette. That's enough storage capacity to hold a blueprint for 30-story building ... or 100 spreadsheets ... or 300word processing documents or a complete interactive presentation on one SuperDisk.

SuperDisk diskettes are 20 megabytes bigger than Zip disks with a lower cost per megabyte.

Features

- 120MB storage capacity
- Same size, shape, functionality as standard diskettes
- Look and feel just like standard diskettes
- More storage for your money
- Holds up to 83 standard diskettes

IMA004 SuperDisk LS-120 Diskette (3-Pack) **$79**

IMA005 SuperDisk LS-120 Diskette (5-Pack) **$119**

IMA006 SuperDisk LS-120 Diskette (10-Pack) **$225**

HYUNDAI

DeluxScan Monitors

DeluxScan Monitors

Available in sizes from 14" to a massive 21" at highly competitive prices the Hyundai DeluxScan Monitor has all the features you would expect from one of the most innovative and successful electronics companies in the world. Manufactured to the ISO 9001 standard, all Hyundai Monitors are extremely energy efficient and comply with EPA Energy Star/ VESA DPMS power saving requirements. Such features allow Hyundai to back their Monitors with an exclusive three year on-site Australia & New Zealand-wide warranty* service.

Ergonomical front panel controls, higher refresh rates, flicker-free images and low emissions are standard on all Hyundai Monitors. Higher resolutions (up to 1280 x 1024) give you amazing clarity for every possible application, from Windows to high end graphics and imaging. So whether you want to design a complex 3D model or simply play, the Hyundai DeluxScan monitor is the one for you!

Features

- Three year on-site warranty available in Australia and New Zealand*
- Plug and play ready
- On screen digital displays
- Compliance with radiation & VESA DPMS standards
- Low-power usage
- Amazing resolution

free 3 YEAR Onsite Warranty

HYA001 Hyundai 14" Monitor **$319**

HYA002 Hyundai 15" Monitor **$459**

HYA003 Hyundai 17" Monitor **$855**

HYA004 Hyundai 21" Monitor **$2399**

Kodak DC210

NEW PRODUCT

Capture exceptional digital pictures with ease

The Kodack Digital Science DC210 Zoom Camera gives you the power to do it. Quickly. Easily. Affordably. With a 2X zoom lens so you can get closer to the action. And megapixel technology, to give your pictures vivid colours and dazzling detail.

Plus with Kodack Digital Science Picture Easy Software 2.0 you'll have the power to download, manipulate and share images. Check it out. It's got everything you need to Take Pictures.

KOD005 Kodak DC210 Digital Camera **$799**

Kodak DC50

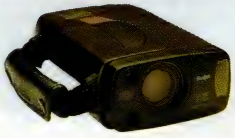
Zoom Lens - 3:1 zoom capability that gives you a focal length of up to 37mm. The flash offers three modes: automatic, on or off. Up to a 14' range. Slide cover doubles as your power switch, open and camera is ready to take pictures.

Internal memory - store up to 22 "good", 11 "better" and 7 "best" quality pictures for up to 1 year.

KOD003 Kodak DC50 Digital Camera **$825**

AUP120 DC-50 PCMCIA Card **$259**

Kodak DC120 Zoom



Capture a wide shot, then zoom in for the detail with a 3:1 zoom lens - and th e LCD display lets you know instantly what you have shot. And with an erase feature you know you'll get the shot you want in rich prcise colour with high res 1.2M pixels 1280 x 950. Camera also features 2Mb of internal storage for up to 20 pictures and supports removable 2mb and 10Mb picture cards.

KOD008 Kodak DC120 Digital Camera **$1299**

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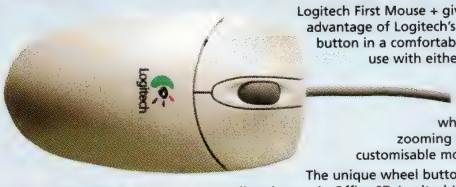
Logitech First Mouse+

Your best value in a zooming/scrolling mouse



Logitech First Mouse + gives you the advantage of Logitech's unique wheel button in a comfortable mouse you can use with either hand. Use the wheel button as both a fully-functional mouse wheel for scrolling and zooming and a third, customisable mouse button.

The unique wheel button does more. While most mouse wheels allow you to scroll and zoom in Office 97, Logitech's wheel also gives you the convenience of scrolling in all your Windows '95 applications and on the Internet as well. This wheel is designed to give you easy, precise movement. It's also a mouse button, which you can easily customise, with a one-click command for extra productivity.

Scroll in Windows '95 applications. When you use the wheel to scroll in Windows '95 applications, you get full up and down scrolling instantly at the speed that's most convenient for you, without having to move the mouse or click on the scroll bar. First Mouse + also gives you the ability to AutoScroll allowing you to scroll diagonally or in any other direction. Click the button assigned to AutoScroll, then move the mouse to scroll freely through documents, such as spreadsheets, which are larger than the screen.

Features:
- Easier programmability and control panel access
- 1 year warranty

LOG060 **First Mouse +** **$48**

LOGITECH

MouseMan

Logitech MouseMan offers you an innovative shape that was designed with humans in mind. Textured grips make this mouse easy to hold and easy to use. Customise the four buttons with one-click commands to work faster and easier. Three of the buttons are on top and fall under your fingers. There's also a handy thumb button on the side.

Scroll in Office 97 and Windows '95. Use the MouseMan thumb button to scroll in Office 97, any Windows 95 application, and on the Internet. Simply click the button and move your mouse to achieve left/right, up/down can diagonal scrolling. Adjust scrolling speed by moving the mouse more quickly or slowly.

Customise the buttons with the click commands. Award-winning MouseWare software makes it simple to customise MouseMan buttons with only one-click commands. For example in Windows 3.1 and Windows 95, the middle button is assigned to double click. Just click the button once and it double clicks for you. Or, customise buttons with cut, paste, page up, page down, task list, or a long list of other shortcuts. It's simple.

Features:
- 3-year warranty
- Universal scroll and Autoscroll, and zoom in Microsoft Office and Microsoft Explorer
- New innovative shape
- MouseWare7.5
- Universal scroll and Autoscroll in all Windows 95 applications

LOG061 **MouseMan** **$79**

LOGITECH

Logitech MouseMan+

3 Year Warrantee

Logitech MouseMan+ combines an innovative new design with a wheel button that lets you work better in Office 97 and all your Windows '95 applications. Use this wheel button as both a fully-functional mouse wheel for scrolling and zooming and as a fourth, customizable mouse button.

Unique wheel button does more. Logitech's unique wheel button lets you do more. While most mouse wheels allow you to scroll and zoom in Office 97, this wheel also gives you the convenience of scrolling in all your Windows '95 applications, and on the Internet as well. This wheel is designed to give you easy, precise movement, It's also a mouse button, which you can easily customise with a one-click command for extra productivity.

Scroll in Windows '95 applications. When you use the wheel to scroll in Windows '95 applications you get full up and down scrolling instantly at the speed that's most convenient for you, without having to move the mouse or click on the scroll bar. MouseMan+ also gives you the ability to AutoScroll, allowing your to scroll diagonally or in any other direction. Click the button assigned to AutoScroll, then move the mouse to scroll freely through documents, such as spreadsheets, which are larger than the screen.

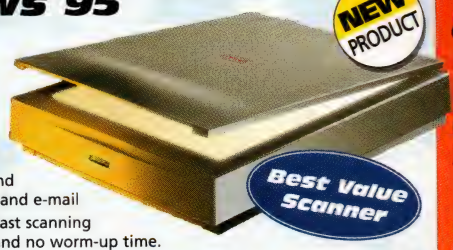
One-handed zooming in Office 97. Use the wheel and MouseMan+ thumb button for easy one-handed zooming in Office 97. Just click the thumb button, and roll the wheel to zoom in or out. You never have to touch your keyboard, and you can keep your eyes on your work.

LOG062 **MouseMan+** **$92**

LOGITECH

DEXXA Flatbed Scanner 4800 - 30 bit colour, for Windows 95

NEW PRODUCT



- The first truly compact 4800 dpi scanner
- Easy to install and use, plugs into the parallel port
- Scan both images and text, then fax, copy and e-mail
- Save time through fast scanning speed, single-pass, and no worm-up time.

Dexxa Flatbed Scanner 4800 is the ideal partner to help you master the art of scanning promptly and easily. Scan pictures and use them to liven up all your documents, from business reports to original greeting cards and calendars, Can text and edit it just like keyboard text. You can even scan thick books by raising the covers hinges. The single scanning button gives your complete control of the task: it lights up to indicate when power is on and flashes during the scanning process. This practical, fast and compact scanner enables you to produce professional standard results.

Additional features
- 300 x 600 dpi optical resolution (4800 x 4800 dpi enhanced), 30-bit colour scanning
- Touch up and personalise your image with Adobe PhotoDeluxe
- Forget retyping: Xerox TextBridge OCR allows you to edit scanned text
- Parallel port connection with pass-through; no need to open your computer
- One year Guarantee

DEX001 **Dexxa Scanner 4800** **$189**

LOGITECH

Logitech Wingman Extreme Digital and X-Wing V's Tie-Fighter Bundle

Free Games Bundle

Logitech's WingMan Extreme Digital joystick provides speed and precision. It features an award winning sculpted grip, reinforced trigger and four-way hat switch, rubber coated buttons, radical throttle for intuitive speed control, and a super heavy base with two extra buttons for extra weapons control in Windows 95 games. An easy to use control panel lets you customise the buttons for Windows 95 games.

Star Wars: X-Wing Vs Tie-Fighter the academy version by Lucas Arts is a single and multi-player space combat simulation game. Now you can prove your mettle in challenging real-time dogfights of 2 to 8 players over a modem or local network. It features 14 combat training missions in 9 meticulously enhanced Star Wars Starfighters with or against your friends. Or fly solo to enhance your skills. All 14 training combat missions can be played solo; 7 of which can be played multi-player and you can fly either for the Empire or the Rebellion, alone or with others, cooperatively or competitively.

LOG080 **WingMan Extreme Digital & X-Wing Vs Tie-Fighter** **$89.95**

LOGITECH

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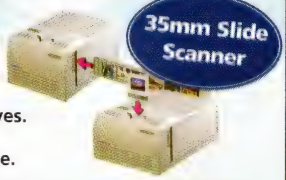
- OmniPage LE OCR for Windows and Mac
- Top quality Image Editing software
- Fast 1 Pass Colour Scans using a true colour CCD.
- "Simple SCSI" or genuine Adaptec SCSI card. 3ft cable.
- SCAN/COPY Utility (Scan to Fax card, printer or disk).
- Optional document feeder or transparency adaptor.

Most software and drivers are supplied on CD

MICROTEK 35T Plus



- High-speed, high-resolution dedicated 35mm Slide Scanner
- 3,900 x 1,950 DPI Optical
- 3,900 DPI Interpolated
- Scans both negatives and positives.
- Scans strips or mounted slides.
- Imaging Magazine Editor's Choice.

35mm slides are far more difficult to scan than standard photos. The 35TPlus is designed to scan purely 35mm slides, delivering not only the higher resolution required for slides, but also by eliminating the use of mirrors and glass, it delivers much sharper images.

PRO504 Microtek 35T Plus..... **$1049**

ScanWizard

Free with Microtek Scanners

According to PC MAGAZINE "arguably the best in the business", ScanWizard gives you complete control over your MICROTEK scanner and the way you want your images scanned.

To scan an image, you first select colour, greyscale or line-art output. A live preview then shows you what is on the scanner's flatbed so you can select 1 or more images. You can of course simply use default automatic settings and by clicking on SCAN effortlessly obtain a top quality scan which will be very very close to the original !

With ScanWizard, matching the quality of your original image is not a challenge, simply a starting point. Why not make the image look better than the original? Based upon what you see on the screen, you can apply at time of scanning a host of image enhancements and filters. You may prefer a softer or sharper looking image. By boosting the colour saturation, you may want to give your pictures that "travel brochure look". You are in control !

Each time you apply a filter you can see the result on the screen, thanks to ScanWizard's Live Preview which shows you before and after images. This makes ScanWizard more fun, more powerful and easier to use than other scanning software.

For the advanced user, ScanWizard also includes a host of features like batch scanning, de-screening, exposure control, curves and levels, zoom preview and much more !

SCAN / COPY Utility

Quick-panel let's you scan directly to your existing printer, fax card or disk file. For Windows 3.11/95. **FREE** with all MICROTEK Scanners.

Transparency Media Adaptor

The Transparent Media Adaptor (TMA) lets you scan 35 mm slides and photographic transparencies up to 8x10". Very easy-to-install (clips on; no screws!), it simply replaces the scanner's lid

Adobe Photoshop 4

CD version.Special price if ordered with a MICROTEK scanner: **$259**

Automatic Document Feeder.

For unattended scanning in line-art mode for use with O.C.R. software. Simply replaces the scanner's normal lid.

MICROTEK E3

- 600 x 300 DPI Optical
- 4,800 DPI Interpolated
- A4+ Size (8.3 x 13")
- Windows Sources BEST Value
- Brighter, clearer images than other SOHO scanners

The MICROTEK E3 is priced for the SOHO market yet still offers an image quality in line with much more expensive scanners. It also offers the same high level ScanWizard scanning module as the rest of the MICROTEK range, setting it appart from other SOHO scanners in terms of features and ease of use.

PRO501 Microtek E3 ..... **$349**

MICROTEK E6

The new standard for affordable high quality Scanning

- 1200 x 600 DPI Optical
- 9,600 DPI Interpolated
- A4+ Size (8.3 x 13")
- Captures 4 times the detail of entry level "600 dpi" scanners.
- "Everything you could ask for in a high resolution scanner".
- PC WORLD Editor's Choice

The MICROTEK E6 offers a slightly sharper image and improved shadow detail compared to the E3. It also captures 4 times the level of detail compared to entry level scanners, which makes it an ideal choice for getting the best possible results when scanning logos, small text or if you want to get the most out of your pictures. It includes a full CD edition of PhotoImpact, probably the best software for preparing web images and the easiest to use for non-professional users.

PRO502 Microtek E6..... **$699**

ScanMaker3

The best Quality Flat Bed Scanner

- 36 Bit Colour (1 pass)
- 1,200 x 600 DPI Optical
- 9,600 DPI Interpolated
- A4+ Size (8.3 x 14")
- Best optical quality. The professional choice
- PC MAGAZINE Editor's Choice.

The Scanmaker 3 features true 36 bit processing and 36 bit colour correction, super fast processing at high resolutions, very low noise electronics, plus a higher quality lens and CCD compared to normal scanners.The result: a professional scanner capable of capturing ultra-fine detail from logos, maximum clarity and sharpness from photos.When used with a transparency option, it provides an impressive 3.4 dynamic range, which means it captures more shadow detail than any other flatbed scanner anywhere near this price range. It's no wonder that the Scanmaker 3 is used throughout australia by professional users and has been acclaimed by publications like publish, PC Magazine, PC world and Byte.

PRO503 ScanMaker3..... **$2099**

PRO506 TMA for MICROTEK E3 or E6..... **$549**
PRO509 TMA for ScanMaker 3 ..... **$549**
PRO508 Photoshop 4 with Microtek E6, 35T, or SM3..... **$259**
PRO510 Automatic Document Feeder E3/E6/SM3 ..... **$599**

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PRINTERS

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EPSON Stylus Color 300

The new EPSON Stylus Colour 300 offers true, four colour printing at a price that virtually everyone can afford. With the superb detail and quality of EPSON'S PerfectPicture Imaging System, and a high-resolution 720 dpi Micro Piezo print head, it delivers photo-quality colour images that will take your breath away.

- 720 dpi Micro Piezo printing
- Affordable 4 Colour Printing
- Crisp black text
- Fast Set-up & Easy-to-use software
- Photo-quality printouts - even on plain paper
- Epson Answers CD-ROM included with every printer provides easy to follow instructions for day to day printing tasks. The Epson Answers CD-ROM support Windows 3.1x and Windows 95 operating systems only
- Compatability with a variety of image processsing software means you can create colourful cards, calenders and more

NB * The page per minute print speeds are a guide only. Actual print speed may vary under different conditions

EPS138 Epson Stylus Color 300. **$249**

EPSON Stylus Color 400

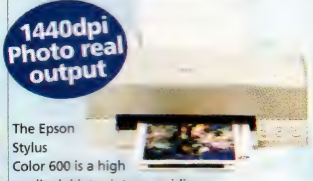
The Epson Stylus Color 400 is is a high quality inkjet printer providing 720 x 720 dpi photo-real output with the addition of some new and exciting enhancements. It is the ideal printer to provide superb 720 dpi results for the home user for both business and personal documents, on all types of paper including plain.

- Up to 720 x 720 dpi high resolution printing in black and white and colour - even on plain paper
- Fast print speeds up to 4ppm* in Monochrome and 3ppm* in colour
- Photo quality output as standard - no additional option required
- Easy-to use printer driver with EPSON answers On-Line manual CD-ROM
- Exclusively for Windows only, using EPSON printer driver technology
- The new standard in personal printing performance for home, home office and small business.
- Perfect for greetings cards, calendars, letterheads, reports, presentations, resumes, images and correspondence

NB * The page per minute print speeds are a guide only. Actual print speed may vary under different conditions

EPS134 Epson Stylus Color 400. **$359**

EPSON Stylus Color 600



The Epson Stylus Color 600 is a high quality inkjet printer providing 1440dpi photo-real output, ideal for in-house desktop publishing and business and personal documents on all types of paper, including plain. The Stylus Color 600 features Epson's new Perfect Picture Imaging System, including MicroPiezo Technology for small accurate inkdots and AcuPhoto Halftoning Technology for accurate colours and smooth graduation. The printer is fully compliant with Windows 95 ICM and Macintosh.

- Up to 4ppm* colour, 6ppm* mono printing
- Photo quality printing up to 1440 x 720dpi
- Superb plain paper printing up to 720 x 720 dpi
- Windows & Mac compatible
- Advanced Dual Ink cartridge system with Quick-Dry ink
- Super MicroDot technology produces smaller, precise dots for sharp edges and smooth reproduction of photo images.
- Windows 95 ICM and ColorSync. 2.0 compliance
- The best all-round, high resolution personal printer for home office and small business
- Ideal for presentations, photo image reproduction, reports, flyers, newsletters, letterheads and correspondence

NB * The page per minute print speeds are a guide only. Actual print speed may vary under different conditions

EPS135 Epson Stylus Color 600. **$499**

EPSON Stylus Color 800

The Epson Stylus Color 800 provides the business user with high-speed colour or mono printing, taking advantage of its high speed colour printing it is designed for multi-platform compatibility and networking. The Epson Stylus Color 800 features Epson's new Perfect Picture Imaging System, including MicroPiezo Technology and AcuPhoto Halftoning Technology.

- Up to 8ppm* mono, 7ppm* colour printing
- Photo quality printing up to 1440 x 720dpi
- Superb plain paper printing up to 720 x 720 dpi
- Optional Postscript & Network compatibility
- High capacity dual ink cartridge system with quick-dry ink
- Super MicroDot technology produces smaller, precise dots for sharp edges and smooth reproduction of photo images.
- Windows & Mac compatible
- The high performance, photo quality printer for business and graphics professionals

NB * The page per minute print speeds are a guide only. Actual print speed may vary under different conditions

EPS136 Epson Stylus Color 800. **$729**

EPSON Stylus Photo

Professional Photo-Reproduction Quality as easy as 1,2,3! With the EPSON Stylus Photo, it is easy to print professional-quality colour images yourself. With EPSON'S Micro Piezo printing and PerfectPicture Imaging Systems the EPSON Stylus Photo delivers outstanding photo-reproduction quality images with rich, natural colour.

The EPSON stylus Photo offers full support for both Windows and Mac os, and features a number of software extras for enhanced creativity. The printer driver's new EPSON PhotoEnhance function allows you to correct exposure values and colour balance with just a single mouse click, and bundled LivePix software lets you add special creative effects like antiquing, embossing and distortion.

- Photo reproduction quality at 720 x 720 dpi
- Bundled software for enhanced clarity and
- 2 minutes to print 4" x 6" photo image
- Versatile paper handling

NB * The page per minute print speeds are a guide only. Actual print speed may vary under different conditions

EPS156 Epson Stylus Photo. **$789**

EPSON FilmScan 200

Studio-Quality Scanning at Home

EPSON'S FilmScan 200, the film scanner makes it easy to scan positive and negative films directly into your computer. In addition to superior image quality, the FilmScan 200 gives you the convenience of continuous batch scanning for high-speed throughput. It's the quickest and easy way to digitize your film library and preserve your favourite images forever.

- Scan direct from film
- Convenient Batch Scanning
- Accepts multiple film formats

- 35mm strip film (Negative and Positive, Colour/Monochrome)
- 35mm slides (Mounted/Unmounted) Positive, Colour/Monochrome)
- Film mounts (less than 2mm thick)
- Maximum read area and pixels 35mm film - 24 x 36mm (1 frame) 1,200 dpi
- Bundled software including PictureWorks, PhotoEnhancer, and Presto! PhotoAlbum

EPS200 Epson PhotoScan **$949**

EPSON PhotoPC 600

Affordable High-Resolution Digital Photography 810,000 Pixels of imaging power. Superb digital image quality and full-featured camera performance comes together in the new EPSON PhotoPC 600. Featuring 810,000-pixel colour CCD and a built-in 2-inch TFT monitor, this exciting new camera makes high-resolution digital imaging an affordable reality.

The advanced colour CCD sensor captures an astounding 810,000 pixels, delivering 1024 x 768 XGA or 640 x 480 VGA images in brilliant, 24-bit colour. Storage capacity is high, with 4MB of internal memory that can be expanded imply by inserting an optional 4MB or 15MB Compact-Flash card in the external memory card slot.

- Wide angle lens with 3x Digital Step zoom
- Panorama Mode
- Macro & Monochrome Modes
- Multi Mode captures 9-shot sequence in a single frame
- Bundled Software
- 4MB memory
- 1024 x 768 pixels (super fine mode)

EPS201 Epson PhotoPC 600 **$Call**

EPSON GT 9500

Professional-quality High-speed 12 Bit Colour Scanning. The new GT-9500 offers superior image quality and high throughput that professional's demand. Image quality is superb, with 600 dpi scanning that can be boosted to 4800 dpi by using the digital zoom. And TWAIN-compliant scan handling software gives you the convenience of auto-scaling, as well as an auto-reversal function that lets you view negative film images as colour positives.

With the GT-9500's 12 bit scanning, you get exceptional tone details and colour quality on both positive and negative film scans.

- 600 dpi resolution
- Zoom 50% to 200% in 1% steps
- 5,096 dots x 7,020 dots at 600 dpi
- 36-bit (68.7 million colours) internal
- Optional Transparency unit
- Optional 30-page automatic document feeder
- Text enhancement technology

EPS091 Epson GT 9500 **$Call**

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HP PhotoSmart System

PC photographs are ready in minutes

What is the HP PhotoSmart system?

Hewlett-Packard is setting a new standard for PC photography with the HP PhotoSmart PC photography system, including a digital camera, a photo scanner, a photo printer, photo imaging software and photo papers. (Note, the photo scanner, photo printer and photo papers will be available this summer). These products have been optimised specifically for photographic images. The quality is so good that you may not be able to tell the difference between an HP PhotoSmart print and a traditional photo!

How does the HP PhotoSmart system work?

With the HP PhotoSmart system, PC photography is easy! Start with a digital photograph or digitise an existing traditional photo. You can enhance it by enlarging it, cropping it, or using it creatively in any kind of project (let us Inspire you!). Or, you can simply print it. Either way, your PC photographs are ready in minutes. And, they look just the way you want them to look. With the HP PhotoSmart system, your photos and projects look so good that your friends and family may never guess that you did it yourself at home on your PC!

Digital Camera

The fast way to get photos into PCs

Taking a photo with the HP PhotoSmart digital camera is as easy as point and shoot. It has auto focus and exposure, and built-in flash. Instead of film, it records images digitally on an economical HP PhotoSmart photo memory card. When a card is full you can insert a new card and take more photos. After the photos are downloaded to your PC, you can erase and reuse these cards. Once downloaded to your PC you can quickly view and select only your best photos you want to print in minutes or send your photographs by E-mail or over the internet.

Easy as point and shoot

Makes it easy to set photos into your PC

- Auto exposure, auto flash, and auto date and time recorder
- Continuous auto focus with macro mode lets you take pictures as close as 2.5 inches
- Comes with Microsoft Picture It! software that lets you easily enhance your photos and use them to create photo projects on your PC
- Step-by-step instructions and creative project ideas on CD-ROM

Removable, reusable photo memory cards replace film

- Capture up to 32 photos on the 2MB photo memory card included
- Once photos are downloaded, photo memory cards can be re-used
- Purchase additional 2MB and 4MB photo memory cards for unrestricted picture taking on vacations and special occasions

Specifications

- 640 X 480 resolution enhanced with PhotoSmart technology and 24-bit colour
- Seven element glass lens and enhanced optics for sharper pictures
- Continuous auto-focus 2.5 inches to infinity with Macro mode for great close ups
- Automatic exposure and 3-mode flash (auto, on, off) & 10 second self-timer
- Works with standard Windows 95 and TWAIN-compliant applications

HPS004 HP PhotoSmart Digital Camera **$699**

Photo Scanner

Scan photos, negatives, and slides into your PC

The HP PhotoSmart photo scanner is the quickest and easiest way to convert not only your existing photographs but also your slides and negatives. It's so easy that all you need to do is insert a photo, slide, or negative. Scan 35mm negatives and slides plus a variety of photo sizes from wallet-size to 5" X 7" enlargements. You can now make use of your negatives or slides for richer colours and greater detail for normal photos or enlargements.

Richer colours and greater detail

Making photo scanning easy

- Automatically launches the HP PhotoSmart photo scanning software when you insert the photo, negative, or slide.
- Completes a typical preview scan of colour prints in 10 seconds, final scans in less than a minute.
- Displays negatives for easy viewing and selection.
- Includes a special photo sleeve that protects and makes it easy to scan fragile photos and unique items such as concert tickets, newspaper or magazine clippings, etc.
- Step-by-step instructions and creative project ideas on CD-ROM

Scanner Specifications

- Dimensions 3.9" H X 8.0" W X 11.6" D
- Resolution 300 dpi optical for prints, 2400 dpi optical for slides and negatives
- Media Type Supported Photographic prints, 35mm negatives and 35 mm slides
- Maximum Scanable Photo Size Up to 5 X 7 inches
- Interface SCSI
- Data Source Full 32-bit TWAIN data source

HPS005 HP PhotoSmrt Photo Scanner **$999**

Photo Printer

Richer colours and greater detail

Print real photos on your home PC

Print photos with the real look and feel of regular photos, suitable photo albums and framing using photographic papers that are comparable to what photo labs use but at a fraction of the cost.

Lets you do for yourself on your home PC what your photo lab does now

Make your own reprints, enlargements, and personalised photos. Produces quality text for personalised captions and greeting card messages. With built in flexibility produce enlargements as well do plain paper printing for kid projects and proofing.

Printer Specifications

- Print Speed 4 X 68 X 10
- Resolution Photographic Imaging Technology
- Multi-dye load thermal inkjet printing
- Memory RAM: 1MB ROM: 512KB
- Dimensions Height:162.5mm (6.4 in)

HPP004 HP PhotoSmart Photo Printer **$999**

Photographic Papers & Ink

All the supplies you'll need for the HP PhotoSmart PC Photography Printing System

With these special papers and ink, the projects you print with the PhotoSmart Photo Printer will look and feel like real photos. These special papers and ink are designed to produce photos like those you get from the photo processor. The paper has a special coating that controls ink interaction, producing clearer photos. The ink has been formulated to work effectively in very small drops. The result is more printable colours than any technology yet developed by HP for the home.

HP PhotoSmart Photographic Papers & Inks ..... **$Call**

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KIS003

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HP LaserJet 6L

Convenient Quality

The Hewlett-Packard LaserJet6L gives out-standing laser print quality at an affordable price. It is a complete, easy to use and convenient printing solution, the perfect replacement for the HP LaserJet 5L.

- 50% Larger Engine Speed
- 1Mb Memory
- 26 Scalable Fonts
- Up to 600 x 600dpi Print Quality 6000 Page Duty Cycle

HEWLETT PACKARD Registered Reseller

HWP200 HP LaserJet 6L **$699**

HP DeskJet 400

Small footprint, small price tag, big performance.

The HP DeskJet 400 printer provides high-quality colour printing , yet takes up little desk space, operates quietly, and is ready to print vibrant and in full colour from the first time you turn it on. The included Colour Kit with snap-in ink cartridges gives you the versatility you need to produce both classic black and white documents and colourful marketing pieces. Exclusive HP ColorSmart technology makes adjusting colour for the greatest impact a breeze.

HEWLETT PACKARD Registered Reseller

Features

- Snap-in Colour Kit allows printing of full-colour materials
- Exclusive HP ColorSmart eliminates guesswork for vibrant colour at the touch of a button
- Prints up to 16.7 million colours
- Simple three-button front panel and intuitive on-line help with graphical user interface
- Compact design includes paper tray that folds up neatly when not used
- Automatic 50-page sheet feeding
- Up to 3ppm in black for fast, high-quality printing

HWP153 HP DeskJet 400C **$275**

HP DeskJet 692C

Versatile printer with breakthrough photo-quality colour!

The HP DeskJet 690C printer can create rich black and dazzling colour printed pieces from your home or office. Banners, labels, stickers, personalised cards and invitations. Even iron-on transfers. The HP RealLife System ensures true-to-life images. Outstanding print quality with brilliant colours and sharp, crisp blacks. You also get effortless results with HP ColourSmart – it automatically adjusts settings for perfect colour every time and includes Photo Pen.

HEWLETT PACKARD Registered Reseller

HWP201 HP DeskJet 692C **$429**

HP DeskJet 870Cxi

Premium printing for professional quality

The HP DeskJet 870Cxi is a state-of-the-art printer for professionals who don't compromise in performance, print quality and network flexibility. With the RealLife Imaging System featuring C-REt Colour Resolution Enhancement technology - the HP DeskJet 870Cxi delivers vivid, attention getting colour, sharp blacks, and enhanced resolution. And at print speeds that help you complete even the most complex jobs quickly.

- Professional black quality
- Fast black output up to 8 pages per minute
- Fast colour output 4 pages per minute
- Network -friendly
- Black resolution Best mode 600 dpi
- Colour Resolution Best mode 600 x 300 dpi

HEWLETT PACKARD Registered Reseller

HWP025 HP DeskJet 870Cxi **$649**

HEWLETT PACKARD Registered Reseller

DESKJET PRINTERS

HWP168	HP DESKJET 340	$469
HWP153	HP DESKJET 400	$275
HWP203	HP DESKJET 670C	$349
HWP201	HP DESKJET 692C	$429
HWP027	HP DESKJET 820CXI	$619
HWP025	HP DESKJET 870CXI	$649
HWP220	HP DESKJET 1000CXI	$755
HWP006	HP DESKJET 1600C	$2379
HWP006	DESKJET 1600cm	$3469

LASERJET PRINTERS

HWP007	HP LASERJET 5L	$624
HWP200	HP LASERJET 6L	$699
HWP134	HP LASERJET 6P	$1189
HWP088	HP LASERJET 6MP	$1529
HWP171	HP LASERJET 4V	$3299
HWP222	HP LASER 4MV	$4899
HWP010	HP LASERJET 5	$1849
HWP046	HP LASERJET 5M	$2899
HWP013	HP LASERJET 5N	$2399
HWP011	HP LASERJET 5SI	$4799
HWP012	HP LASERJET 5S1MX	$6799
HWP221	HP LASER 5SI NX	$5199
HWP048	HP COLOUR LASERJET 5	$7399
HWP049	HP COLOUR LASERJET 5M	$9399

MULTIFUNCTIONAL

HWP205	HP OFFICEJET 350	$949
HWP202	HP OFFICEJET PRO 1150C	$1449

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Always clear-always sharp!

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Paper & Transparencies for Deskjet, Deskwriter & Paintjet XL300

AUC101	HP Premium Transparency film A4 (20 sheets)	$34.95
AUC102	HP Premium Glossy A4 Paper (10 sheets)	$19.95
AUC105	HP Premium Paper A4 (200 sheets	$34.95
AUC106	Photo Paper A4 20 sheet pack (DJ 690 only)	$19.95
AUC109	HP Greeting Card Paper	$20.95

HP Ink

Ink Cartridges - Deskjets & OfficeJet

AUC110	High-Capacity Black Ink, DJ400/500 series	$39.95
AUC111	Tri-Chamber Colour Ink, 300/400/500 Series	$44.95
AUC112	Black Ink, DJ/DW600 Series	$39.95
AUC113	Tri-Chamber Colour Ink, DJ/DW600 Series	$44.95
AUC114	Colour Inkjet Photo Cartridge (DJ 690 only)	49.95
AUC118	Black Ink, DJ1200 Series, CopyJet & DesignJet 2xx, 3xx & 650	$39.95
AUC122	Black Ink, DJ 800, DJ1600 & DesignJet 700 Series	$44.95
AUC123	Tri-Chamber Colour DJ800 Series	$45.95

HP Toner

AUC125	Microfine Toner Cartridge LJ 5L (EP-A)	$99.95
AUC126	Microfine Toner LaserJet 5P, 5MP, 6P & 6MP	$129.95
AUC135	HP Toner Collection Kit Colour LaserJet 5 & 5MV	$39.95

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PRINTERS

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Canon BJC - 5500

Full A2-size Colour and Monochrome Printing

Discover the Bigger Picture in High-performance All-Purpose Business Printing. With wide-format printing (A2-size), accelerated speed and full colour capabilities, the BJC-5500 is the bigger, better solution for your heavy-duty office printing needs.
From posters and displays to correspondence and envelopes, the BJC - 5500 is the one printer for every office task. The extra wide carriage offers up to 16" of print width for all popular paper formats up to tabloid - size A2. For continuous, heavy-duty printing the built-in pin-feed tractor accepts standard fanfold paper. Add the optional auto sheet feeder with one or two paper bins and you'll have totally automated printing for up to 200 cut sheets as well.
The BJC - 5500 is very fast printing up to7 ppm in monochrome & handles coated and glossy papers, envelopes, high gloss film, black print film, transparency film and fabric sheets etc.

NEW PRODUCT

CAN225 Canon BJC5500 ... **$1329**

Canon BJC - 7000

Finished Output Like You've Never Seen Before

Canon have re-defined, re-invented and changed printers; they've created a new class of printer! The Canon BJC - 7000 sees the introduction of P-POP for plain paper, second generation PhotoRealise, 99.4% water fastness and full bleed printing.
Here is just a few of the differences
P-POP: Optimises plain paper to perform like coated paper.
Second Generation PhotoRealism: 91 times more colour combinations per pixel than conventional CMY inks.
7 Colour printing process: High and low-density links produce 9 saturation levels per pixel on any medium.
99.4% water fast: Documents last longer, look better, with almost no fading, and are 99.4% water fast!
Breakthrough Ink Cartridges: The new ink system with larger ink cartridges uses up to 1088 nozzles firing 10,000 drops per second.
Higher Resolution: Prints up to 1200 dpi with ink drops that are 75% smaller than any previous Bubble Jet model.
Better Paper Handling: Prints widths up to full-bleed A4, and paper weights up to 550 gsm.

A new class of colour printing

CAN005 Canon BJC7000 ..... **$669**

Canon BJC - 80

Portable Colour Bubble Jet Printer

With breakthrough colour, super fast blacks and cable-less communications.
The BJC - 80 combines the benefits of a personal laser, a photo quality printer, optional scanner, and, with appropriate software, a fax, all in one unit
The versatile BJC - 80 is small enough to slip into a brief case and by simply changing the cartridge from the colour cartridge to a dedicated black cartridge you can print laser like finish documents at speeds up to 5 ppm.
Colour Scanner. Convert your printer into a colour scanner (Scanner head optional). Pop out the print head and clip in the colour scan head, add the appropriate software and scan documents for faxing & OCR, or scan colour graphics for image manipulation.
Image Optimisation for the Internet. The BJC - 80 enables you to optimise low resolution Internet images, printing them out at the maximum resolution supported by your printer.
Cables-less communication. With the infrared port and the optional battery kit enabling you to print up to 200 pages the BJC - 80 offers cable-less operations; lugging cables is a thing of the past.

Portable Printing & Scanning

CAN001 Canon BJC80 Portable **$469**

Canon's Range of Printers/Scanners & Cameras

CAN003	CANON BJ210	$229
CAN057	CANON BJC240	$299
CAN046	CANON BJC4200(A4)	$369
CAN050	CANON BJC4550(A3)	$739
CAN040	CANON BJC620	$619
CAN047	CANON LPB-660	$579
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GVA008

Only $39.95

Nearly one hour of video clips, over 100 screen savers, planner and print shop!

For a limited time only.

OKIPAGE 4W LED Laser

Windows 3x, Windows for workgroups and Windows 95 Compatible

A personal printer with low running costs, ideal for Windows users in the small and home office.
With the OKIPAGE 4W you are able to control printing directly from your PC, quickly returning to your application.

LED PRINTHEAD 5 YEAR LIMITED WARRANTY

OKI People to People Technology

OKI006 OKIpage 4W **$399**

OKI 810E LED Laser

Fastest in its Class

The OKI OL810E LED Laser is ideal for the high quality personal desktop publishing market requiring high speed printing (fastest in its class with 14 secs to first print) and a huge 250 sheet standard capacity with versatile paper handling options. It is suited to the shared work group environment and also has an optional True Adobe Postscript Level 2.

LED PRINTHEAD 5 YEAR LIMITED WARRANTY

OKI People to People Technology

OKI007 OKI 810E **$1079**

Modem Wizard 97

Make Perfect Modem Connections Every Time - Automatically

Eliminate these problems:

- Modem won't dial
- Dials but won't connect
- Hangs up for no reason
- Will not answer
- Doesn't connect at right speed
- No dial tone
- Connections seem too slow
- Fax/modem not recognised
- Works fine in DOS but not Windows
- Dial-Up Networking doesn't work right
- Can't get you Internet Access ISP configured properly
- Changed Internet Sercice Providers and can't get on the net

Includes TrueSpeed, Modem Monitor, Modem Exchange & much, much more!

Designed for Microsoft Windows 95

KIS018 Modum Wizard **$49**

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MODEMS

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

PalmPilot

To keep you organised and in-touch with your PC!

Note: existing Pilot 1000/5000 users can upgrade to Palm Pilot Professional with this 1 meg upgrade card

INCLUDES FREE CABLE

NEW PRODUCT

- Features for PalmPilot Personal & Professional
- Back-lit Display
- PC Link (download & Upload information)
- Shirt pocket size & light weight
- Instantly syncs data with your PC's Popular Application: Microsoft Schedule+, Lotus •Organiser, Symantec ACT!, Now Up-To-Date, Sidekick, ECCO, Day-Timer Organiser, •Maximiser, Franklin Ascend 97 and more.
- Flashroom upgradeable
- Programmable using "Code Warrior" for MAC/PC
- 2 x AAA battery (included in pack)
- Storage Capacity:
- PalmPilot Personal (512K) edition: 2500 addresses, 2400 appointments, 500 "to do" •items and 500 memos.
- PalmPilot Professional (1 Meg) Edition: 4000 addresses, 2400 appointments, 750 "to do" items, 750 memos and 100 emails.

USR020 PalmPilot Personal **$459**

USR021 PalmPilot Professional **$575**

USR024 1 Meg upgrade card **$157**

Sportster Flash

NEW PRODUCT

X2 56K (External)

Quality at an affordable price

Sportster Flash x2 56K Features

- Fax/Modem with Digital Personal Voice
- Full Duplex Speaker Phone (Handsfree Telephone)
- Fast data transmission 56.6K depending on server
- Plug & Play (WIN 95)
- Reflash ROM
- 5 Year Warranty

5 Year Warranty

For more information about any of the above products please look up the US Robotics Webpage: http://www.usr.com.au

USR040 Sportster Flash x2 56K (External) **$269**

Also available (not pictured)

USR022 Courier V. Everything x2 33.6K (external) free upgrade **$319**

USR023 Worldport 33.6K PCMCIA Card **$345**

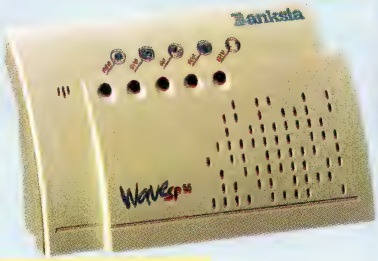
Banksia Wave SP

FREE WEB & INTERNET SOFTWARE

The fully featured 56,000bps modem!

5 YEAR WARRANTY

The Wave SP is the first modem to be awarded a prestigious Australian Design Mark in recognition of design excellence and innovation.
The assessment panel commented that "(the Wave SP) is radically different from its competitors and upholds the highest principles of unitary design".



Banksia's revolutionary new wave SP Fax Modem includes;

- High speed data transmission at 56,000bps
- Fax transmission at 14,400bps
- Simultaneous voice & data (SVD) transmission
- Full duplex speakerphone (hands free telephone)
- Fully featured smart answerphone
- Microsoft Internet Explorer™ for Internet surfing & Web site construction
- The best new games
- A radical new shape for optimum audio performance

AUSTRALIAN DESIGNMARK 1996 GOOD PRODUCTS BY DESIGN Banksia Technology Pty Ltd Wave SP Licence No. 96034 STANDARDS AUSTRALIA

BAN003 Banksia Wave 56.6 SP Fax Modem **$279**

AUZ134 Banksia Wave 33.6 SP Fax Modem **$229**

ComboCard 336

Network, Internet, Fax & Remote Communication in One Card

Ideal for the mobile professional

Features:

- Network and remote connectivity via LAN
- Remote connectivity via phone line
- Send and receive data at speeds up to 33,600bps
- Fax direct from your PC at 14,400bps
- Simultaneous ethernet & faxmodem operation
- Sleep mode conserves your notebook's battery
- Smart answerphone

BAN002 Combo Card **$499**

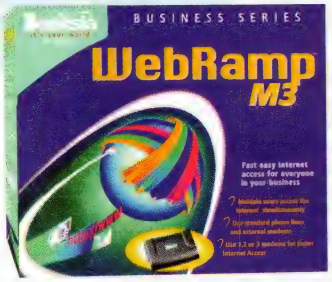
WebRamp M3

Give everyone simultaneous Internet access plus networking - all in one!

WebRamp M3 has no technical limit to the number of users. Faster modems will improve overall performance. WebRamp will bring email to the small office, browsing for everyone on the LAN. It will enable file transfers over the net and access to the most common Internet applications.

Webramp M3 works with most networking environments:

Windows 95, Windows NT, MacOS, Windows 3.1*, Windows for Workgroups*, NetWare*, LANtastic



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MODEMS

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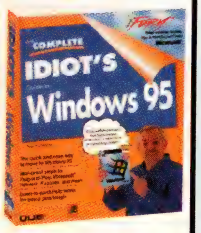
Idiot's guide to MS Windows 95!

IDI003



Only $24.95

You'll quickly overcome your computer phobia and get on with enjoying all your computer has to offer!

NetComm Roadster56 Ultra

Summer Special*

With the recent release of the Roadster56 Ultra, Netcomm is offering an explosive deal this summer.
Those games freaks will be in for a treat, when they open there Netcomm Roadster56 Ultra this Xmas. The Limited Edition offer contains everything you need, it not only gets on the Net for free, but also gets you hooked up to Multiplay for one month free, plus you get three trial versions of the latest games. What more could a games addict need? And, all this at no extra cost!
The full details of the package are as follows, and all for the low price of $299 RRP ex tax.

Summer Special Includes:
- **20 FREE hours of Internet time**
- **1 Month Unlimited free access to Multi-Play**
- **First 2000 come in a clear casing**
- **FREE trial games: Quake, Shadow Warrior, Duke Nukem**

Features
- Roadster56 Ultra modem - using the latest technology you can now surf the Net at blistering speeds of up to 56,000bps. Plus you can use your modem as a handsfree speakerphone. The Roadster56 Ultra also allows you to talk and send data at the same time over the same line using SVD technology.
- One month free subscription to MULTIPLAY - play the worlds most popular games against opponents all over Australia over the Net.
- 20 hours free Internet time from Access One - with no registration fee!

Quality Endorsed Company ISO 9001 ISO 9002

NET135	Roadster 56 Flex Summer Pack	$259
NET017	Roadster 56K Flex Ultra (External)	$259
AUP315	Roadster 56Kflex (External Data/Voice)	$225
AUZ136	Roadster 33.6K (External)	$189
AUP136	Roadster 33.6K Ultra (External)	$225

NetComm CardModem 56k Combo

Occupying one PC Card slot, the CardModem 56 supports the Rockwell 56k standard allowing data connections up to 56,000 bps, Fax up to 14,000 bps and Ethernet connectivity for 10Base-T and UTP networks running Novell, Microsoft and Macintosh are also supported.
Flash upgradability ensure the CardModem 56 Combo can be upgraded while in the field. Users requiring high speeds access to the Internet or corporate remote access services while simultaneously accessing their corporate LAN should consider the NetComm CarModem 546 Combo

Features
- Australian designed and manufactured
- Lifetime Warrantee with 1800 free support
- PC Card Type II
- 56 Flex technology
- DigitalLine Protection
- Plug and Play

Quality Endorsed Company ISO 9001 ISO 9002

NET130	CardModem 56k Combo	$519
NET131	CardModem 56k	$359
AUP173	CardModem 33.6k V34	$289

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Accura 33.6 Data/Fax/Voice

Hayes

FREE WEB & INTERNET SOFTWARE

From the inventor of the PC Modem!

When technology changes, isn't it best to go with the industry standard? Experience the Internet, online services, bulletin boards, e-mail, cybershopping, faxes and professional message centre software. Available Windows® or Macintosh PC's.

Optima Business Modem

World's fastest modem 230, 400 bit/s Voice/Data/Fax, remote configuration, security flash upgradeable, leased line ideal for business or the power user.

AUP169	Accura 33.6K Modem	$189
AUP171	Optima PC Card Modem GSM	$429
AUP172	Optima Business Modem V34	$359

Hayes Accura 56.K Speakerphone Model

How fast do you want to get there?

56.6K SVD Modem

With the ACCURA 56K, you get the fastest Internet access over ordinary phone lines and the legendary Hayes reliability. Professional quality messaging system provides Voice Mail and Fax-on-Demand. A single line can turn any remote office into a professional message centre. Why settle for a Hayes compatible modem when you can have a genuine Hayes modem?

Stock Code HAY
$31

Features
- Professional, Multiple Voice mailbox System - Create and manage multiple voice mailboxes remotely.
- Fax-On-Demand - Now you can provide ultra fast response to customer's inquiries
- Flash ROM Upgrades - Fast, flexible and easy upgrades to modern features, eliminate obso equipment
- V.34 Support - Modems support ITU-T V.34 technology to provide maximum support wh connecting to V.34 modems
- 5 year warranty, free lifetime technical suppo

HAY022	Accura 56K Speakerphone Internal Modem	$26
HAY023	Accura 56K Data/Fax External Modem	$23
HAY024	Accura 56K Data/Fax Internal Modem	$22

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INTERNATIONAL SOFTWARE WAREHOUSE Pty. Ltd.

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!* *See page 3 for Price Pledge

Xircom CreditCard Modem 56

Innovative 56K PC Card modem offers notebook users performance benefits today and tomorrow.

The Xircom CreditCard Modem 56 - GlogalACCESS is a versatile communication solution which enables you to access information for any location, anywhere in the world.
This innovative PC Card offers notebook users more frequent connections at higher speeds than current v.34 modes, up to 56Kbps.
A GlogalACCESS product, the CreditCard Modem 56 features unique enhancements for international travelers. These include international approvals for the most reliable connections, and software which automatically configures the modem to local dialing conventions when traveling from country to country.

Features:
- Robust High-speed connections - provides more frequent connections at higher speeds than current v.34 modems.
- GlobalAccess - One card for worldwide use, internationally approved to ensure reliable connections worldwide; also includes CountrySelect which simplifies modem set-up when traveling.
- Flash ROM-upgradable Allows quick and easy software upgrades
- Digital Shield - protects your modem against high-current digital phone lines.
- Easy Installation - Installation program automatically configures notebook and modem
- Limited Lifetime warranty Hardware, 2 years software.

XIR036 CreditCard Modem 56 ..... **$379**

CreditCard Ethernet 10/100 + Modem 56

Innovative 10/100 Ethernet and 56K modem functionality offers notebook users performance benefits today and tomorrow.

The CreditCard Ethernet 10/100+Modem 56 from Xircom's award-winning family of Fast Ethernet products combines a 10/100Mbps Ethernet adapter and high-speed 56K modem in a single PC card.
This fast Ethernet combination PC Card offers seamless operation on 10Mps and 100Mbps networks, as well as modem speeds up to 56Kbps. It protect your investment by enabling you to purchase an Ethernet+Modem PC Card today, with speeds that meet your needs in the future.
A GlobalACCESS product, the CreditCard Ethernet 10/100+Modem 56 features unique enhancements for international travellers.

Additionally, Xircom's optional GSM connection kits provide truly mobile solutions by connecting your Xirxom Ethernet+Modem Card to a GSM phone.

Whether in the office, at home or traveling internationally, the CreditCard Ethernet 10/100+Modem 56 gives you the flexibility to take advantage of performance benefits today and tomorrow.

Limited Lifetime warranty Hardware, 2 years software.

XIR035 CreditCard Ethernet 10/100 + Modem 56 **$645**

GSM Connection Kit

GSM Connection Kit connects your Xircom modem to a GSM phone providing true mobile connectivity.

GSM Connection Kit ..... **Call**

Xircom CreditCard GSM

Connect Anywhere, Anytime: use Xircom's GSM PC Card to send and receive data, faxes or SMS messages while you're on the move.

Connect to your corporate network, stay in touch with your business, surf the Internet or access E-mail while you're on the move. Enjoy the freedom of data communication in an airport or at a customer site anywhere in the world without being tided to a telephone socket. The CreditCard GSM is the ideal solution for all your mobile connectivity needs.

The GlobalACCESS CreditCard GSM provides notebook users with data and fax communication over GSM (Global System for Mobile Communications) networks worldwide. Connect your GSM handset to the Xircom CreditCard GSM PC Card and turn your notebook into a mobile office. A member of Xircom's comprehensive family of Global ACCESS PC Cards, the CreditCard GSM increases your productivity by enabling you to send and receive data, faxes and SMS messages on your notebook.

Features:
- Send and receive Data - Transfer files, e-mail or surf the internet over a digital GSM link at speeds up to 9600bps
- Fax - Send and receive faxes.
- SMS - The Short Message Service (SMS) enables users to send and receive messages up to 160 characters on the notebooks.
- Full Software Bundle - Includes the Wireless Office software package from Trio
- Limited Lifetime warranty Hardware

XIR036 CreditCard Modem 56..... **$419**

Zoom V.34XE Modem

High-speed communication with Zoom V.34xe Modem

Experience fast and nearly error-free communication on your computer with the external 33.6 Zoom Fax/Data Modem. Supports the international V.34 standard and the V.Fast Class standard for 28,800bps data transmission. The Zoom V.34XE makes it easy to "broadcast" personalised faxes to groups of people, to schedule fax deliveries when connection rates are low, an to forward a fax with no loss of clarity. Also supports V.42, and MNP automatic error correction, and MNP 10ECTM for more reliable cellular, transcontinental, and international communications. Bundled software includes SFT full-featured and Microphone LT Internet. Starter Kits from Telstra BigPond, Oz-Email, and Compuserve also included along with Windows software.

Features
- Supports both the V.34ITU standard and V.Fast Class 28,800bps
- Caller ID compatible
- V.17 protocol for 14,400bps fax capability
- V.42bis and MNP 5 data compression
- V.42 compliant error correction
- Includes five-year warranty
- 33.6k data transmission rates
- Telstra duct compatible

Zoom Guard lighting and surge protection

ZOO011 Zoom 33.6K Fax/Data (External) **$185**

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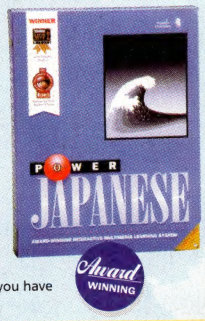

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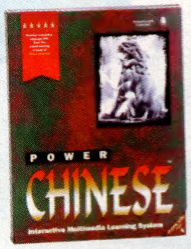

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Interactive Multimedia Learning System from Transparent Language

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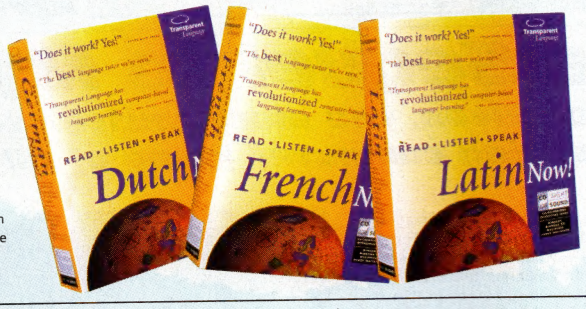

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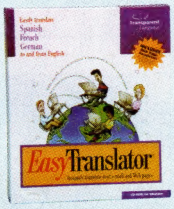

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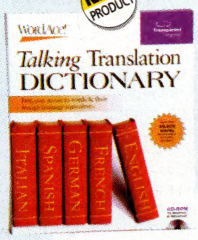

Transparent Language

The WordAce! Range features:

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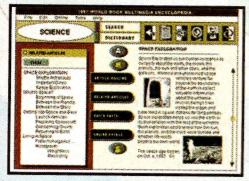

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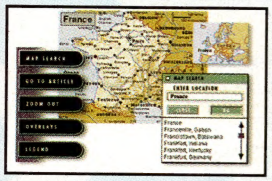

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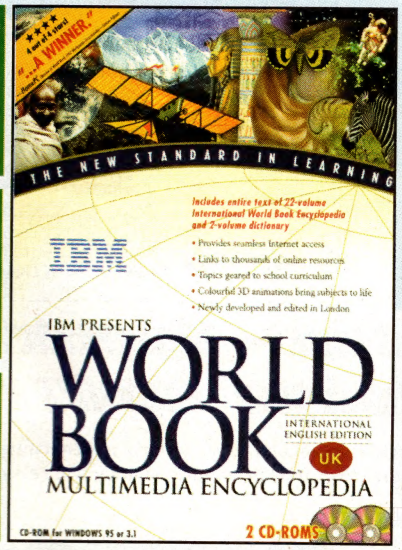

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...my worst fears are realised, the damage is more extensive than I ever imagined. I must get everyone off Riven as soon as possible, before its total collapse. The problem now is my father. My dear Catherine, what will be her fate... if he's still the same? I'm afraid it will take more than I, Atrus, to outwit Gehn... and his corruptive ways. I must act while there's still time. I must find someone... to send to Riven. Soon, it will be time. Prepare to enter a world "torn asunder" by timeless, unresolved conflicts, a world of incomparable beauty, intrigue, and betrayal. Prepare to go to Riven.

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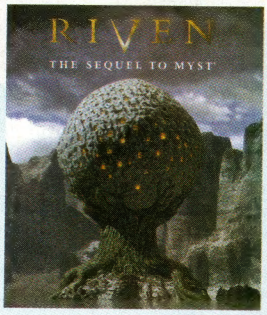

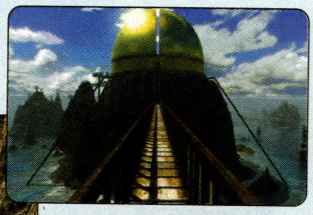

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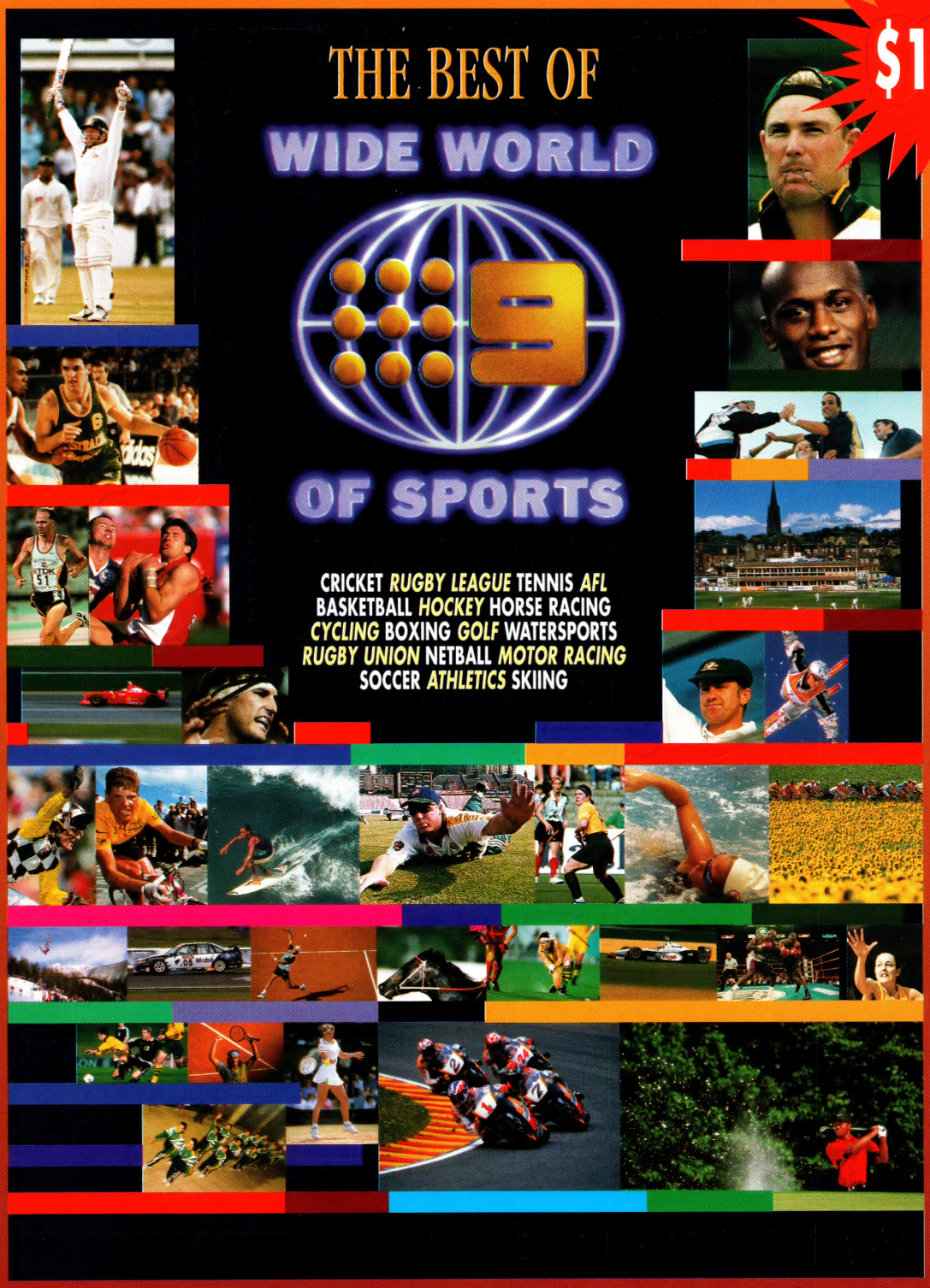

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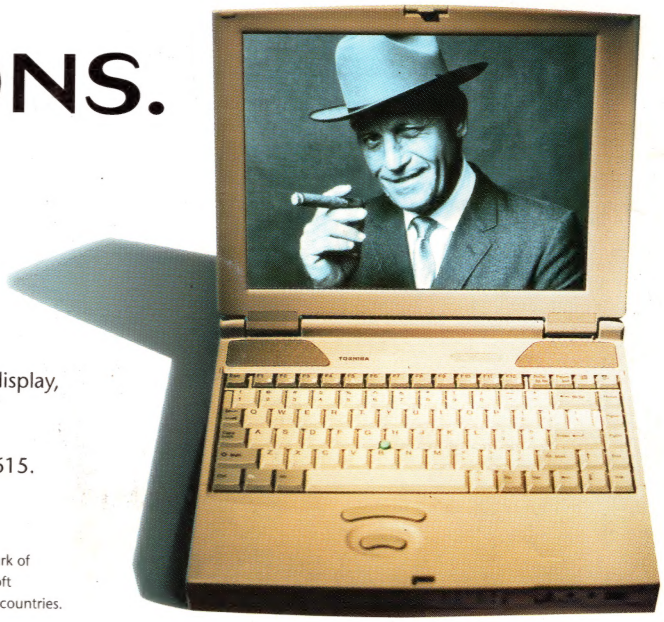

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